# The Atiming Journal

## ILWAY GAZETTE,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 581 .--- Vol. XVI.]

LONDON: SATURDAY, OCTOBER 10, 1846.

[PRICE 6D.

Stannaries of Cornwall-In the Bice Warden's Court. URSUANT to a DECREE of the Vice-Warden's Court, made

is certain consolidated causes of
JENNINGS and ANOTHER v. STEPHENS,
TYACK and OTHERS v. SAME,
HARRIS and ANOTHER v. SAME,
HARRIS and ANOTHER v. SAME,
The CREDITORS, in respect of the PENTIRE GLAZE MINE, in the parish of Saint
Minver, within the said Stannaries, are, on or before the 20th day of October next to come
in and PROVE their DEBTS before the registrar of the said court, at his office, in Truro;
or, in default thereof, they will be excluded the said decree.
Datest Registrar's Office, Truro, Sept. 29, 1846.

Stannaries of Cornwall-In the Vice-Warden's Court.

JENNINGS and ANOTHER v. STEPHENS,
TYACK and OTHERS v. SAME.
HARRIS and ANOTHER v. SAME.
HARRIS and ANOTHER v. SAME.

IN the matter of PENTIRE GLAZE MINE.—WHEREAS,
the Vice-Warden did, by an ORDER, or DECREE, made to the above-mentioned
causes, and bearing date on the 22d day of August last, order and decree that a SALE be
made of the ORES and HABVANS, and (if necessary) the ENGINES, MACHINERY,
and MATERIALS, upon and belonging to PENTIRE GLAZE MINE, in the parish of
Saint Minger, within the said Stammaries, under the direction of the registrar of this court;
and that the proceeds of such sale should be applied by the said registrar in the manner
directed by the same order or decree. Notice is hereby given, that, pursuant to the said
order and decree, a FUBLIC AUCTION will be HOLDEN at PENTIRE GLAZE MINE, is
deresaid, on Thursday, the 22d day of October next, and following days, at Eleven o'clock
is the furumoon of each day, for SELLING, either together or in lots, the under-mentioned
MINING MACHINERY AND MATERIALS—VIZ.:

One STEAN-ERGINE, 63-inch cylinder, a new boller, 12 tons, and the first piece-of

One STEAM-ENGINE, 63-inch cylinder, a new boiler, 12 tons, and the first piece of

A WATER-WHEEL, 36 ft. diameter, 2 ft. breast, crusher, and frame, with rollers, Sc., complete.

Three horse whims and shaft tackle, whim ropes, 20, 14, and 10-inch, plunger poles and cases, several fathoms of 15, 13, 10, and 8-inch pumps, working-barrels, windbores, door-pieces, stufing-boxes and glands, about 70 fathoms of main and connection rods, iron and wood flat-rods, with carrier pulleys, &c., strapping plates, staples and glands, 2 cisterns and beavers, 4 English oak and wheel asks, boring machins, about 100 fms. of ladders, 2 sets of excellent iron tackle blocks, chains, and ropes, new and old iron, a quantity of new and old ironer, whim and wirne kibbles, water barrels, brass and iron wire sleves, wheel and hand barrows, miners' and other chests, hutches, powder and safety fuze, 3 smiths bellows, 3 auvis, 2 vices, an excellent mandril, minths' and miners' tools, screwing stock, and a variety of taps and plates, handscrew, beam and scales, iron weights, pick and shovel, hilts, brick, slate, several tons of coals, counting-house furniture, a quantity of undressed lead ore, and a variety of other materials in general use in mines. For riewing the same, application may be made to Capt. Blabup, on the mine; and for further particulars, to Mr. Stokes, or to Mr. Roberts, solicitors, Truro.

Dated Registrar's Office, Truro, Sept. 29, 1846.

TO ENGINEERS, MILLWRIGHTS, BOILERMAKERS

TO ENGINEERS, MILLWRIGHTS, BOILERMAKERS, BUILDERS, &c. &c. — IMPORTANT SALE OF BOILERS, STEAM—ENGINE, MACHINERY, IRON PIPING, CISTERNS, &c. — Mr. STAMP has received instructions from the proprietors of the SUGAR REFINERY, situate in the GROVES, at HULL, to SELL, By AUCTION, on Wednesday, Thursday, and Friday, the 14th, 15th, and 16th days of October, 1846, at Ten o'clock each day, the

WHOLE OF THE PLANT,

consisting of a STEAM-ENGINE, of 30-horse power; FIVE BOILFRS, of 16, 20, two of 25, and one of 40-horse power; TWO SUGAR MILLS, a STEAM-CRANE, and several other cranes; several sets of PUMPS, with 13-inch diameter cylinders; a vacuum pan, with apparatus; large copper cisterns, two large iron cisterns, a great number of wood cisterns, lined with copper and lead; several iron doors, from shaftings, with various sorts of spar-wheels attached; an immense quantity of iron piping, of from 1 to 7-inch bore; about 5 tons iron weights, with various other articles and utensits used in the trade.

Also, the BEICKWORK and SLATING of TWO BOILER-HOUSES, a large OCTAGON CHIMMEY, 115 feet high, with oranomental base and capital, the BUILDING used for manufacturing charcoal, with a SMALL CHINNEY, 40 feet high, SEVEN large BRICK RESSEN OURS.—The Jost will be on view firree days previous to the sale, and catalogues may be had one week previous, on application to the sale, without a catalogue.

MAR.—Ro person will be admitted to view, or to the sale, without a catalogue.

MR. GEORGE WHITE is instructed to SELL, by PUBLIC AUCTION, on Thursday, the 22d day of October, the whole of the very valuable MACHINERY, at BATSTONE MINE, near LEEK, in the country of Statford, comprising a large WATER-WHEEL, 18-feet diameter and 9-feet breast, with cast-iron axie, crank centres and arms, with connecting-rod; engine beam, drawing machine, large pentrough, with roller paddle; 40 yards of 10-inch PUMPS, with rods, clacks, bucket, bolts, &c., &c.; 22 yards of 6-inch pumps; 27 yards of 6-inch pumps, with clack, bucket, bolts, &c., complete: a set of eastings for tec-bob; several pumps, 13-inch bore; about 400 yards of 11-inch square wrought-iron rails; 150 yards of 11-inch round iron; a new grinder, with double rollers; capstam, with cake splindle; awil and smith; bellows; about 50 yards long of 1-inch chain; iron gear, barrels, iron waggons, a large quantity of brass wire steves, dressing tabs, wood sheds, and numerous other articles, which have been recently erected, regardless of expense.

The Batstone Mine is situated only a few miles from canal conveyance, which communicates to all parts of the kingd on.

The Sale to commence precisely at Eleven o'clock.

IFFORD CHEMICAL WORKS AND FREEHOLD

IFFORD CHEMICAL WORKS AND FREEHOLD ESTATE, straate at King's Norton, near Birmingham, bounded by the Birmingham and Worcester Canal, and intersected by the Birmingham and Bristol Railway.—
TO BE SOLD, BY AUCTION, by E. and C. RoBINS & CO., on Thursday, the 15th day of October next, at Four o'clock in the afternoon, at Dee's Royal Hotel, in Birmingham, and period to the conditions then and there to be produced (unless in the meantime an acceptable offer be made by private contract, of which the earliest possible notice will be given). LOT I.—The above-mentioned well situated, extensive, and complete WORKS, adapted, at great cost, for the manufacture of Sulphuric Acid, Alkali, Aquafortis, Roman Vitrol, and offer chemicals—established many years ago by the late Mr. Dobbs, and since case trucked, and most extensively enlarged and rearranged, by his successors.

The situation was selected as an eligible one, on account of its command of land and water carriage to and from all parts, both for the supply of materials to the works and the dispatch of the articles manufactured. The site, comprising about six acres, is bounded by the Birmingham and Worcester Canal, to which it has about 15 boat-lengths of wharf-ago, by the Bristol and Birmingham Railrond (close to the King's Norton—against the whole length of which is a lofty brick wall, and from which are approaches by gateway entrances.

The establishment is of a most complete and extensive character, consisting of various lead-houses, laboratories, restort-houses, condensers, receivers, furnaces, vaits, kilns, chimney-stacks, upwards of 300 feet high, and the various other buildings and arrangements nocessary in storing, compounding, and manufacturing; together with the steam-engine, warolnoses, dwelling-house, counting-house, vortahops, &c.

The land not occupied by the works has under it a valuable mine of brick earth, and their are acres, advantages, and a water of the same, and there are suitable arrangements of kilns and sheets for the manufacture of the same, an

square, London; or to the

Lon-square, London; or to the auctioneers, New-street, Birmingham.

EAD MINES, INVERNESS-SHIRE.—The attention of CAPITALISTS and of MINING ADVENTURERS is invited to an extensive DISTRICT of rich and promising MINERAL GROUND, attented in the immediate vicinity of excellent reads, and within 16 unless from a shipping port, in the county of INVERNESS, which would BE LET, ON LEASE, upon advantageous terms. Under the superintendence of an experienced mineral agent, a shall has been such to the depth of 20 fathoms; at the mouth of which, as engine and other works have been creeded, and isverse have been driven. In different directions, by the proprietor and his agents, with the view of exploring see lodge and strain, which are of a most promising character. A minute survey of the lands and workings has been recently made by an eminent mineral surveyor, whose report, with a sketch and sections of the workings, together with specimess of the orraticed, may be seen, on application, at the office of Edward Slaughter, Esq., 5, Duchesteret, Fordand-place, London; and all further local and other particulars may be desired. The control of the college of the order of the college of the c

THE PATENT SAFETY FUSE, OPERATIONS WITH WHITE STATEMENT WAS A FETY FUSE, OPERATIONS.—This article affords the SAFET, CHEAPEST, and most EXPEDITIONS MODE of effecting this very hazardous operation. From many testimonies to its usefulness with which the manufacturers have been abvorsed from John Taylor, Esq. F.R.S., &c. .—"I am very glad to hear that my recommendations have been of any service to you; they have been given from a thorough conviction of the great usefulness of the Sakey Fuse; and I am quite willing that you should employ my name as evidence of the Sakey Fuse; and I am quite willing that you should employ my name as evidence of the Sakey Fuse; and I am quite willing that you should employ my name as evidence of the Sakey Fuse; and I am quite willing that you should employ my name as evidence of the Sakey Fuse; and I am quite willing that you should employ my name as evidence of this."

FOR SALE-EXTENSIVE AND VALUABLE IRON-WORKS (in close vicinity of the harbour of Aberdeen).—There will be exposed of SALE, BY PUBLIC ROUP, within the Lemon Tree Tavorn, ABERDEEN, or Vednesday, the 4th day of November next, at Two o'clock afternoon, those extensive and aluable premises, at FOOTDEE, Aberdeen (bounded on the west by the harbour), known as THE DEE IRON-WORKS,

and long EMPLOYED in the ENGINERRING and MILLWRIGHT BUSINESS, and in IRON FOUNDING, BOILER-MAKING, IRON SHIPBUILDING, BLACKSMITH WORK, BRASS FOUNDING, &c.

These works are very compact, and nuch more advantageously situated than many other works of the same description, for iron shipbuilding and engineering business—having a WATER FRONTAGE to the harbour, and in close connection with the other parts of the eastern—and the whole lying so contiguous, that all the branches of the business can be carried on under the same anyerintendence.

In the BUILDING-YARD several iron vessels may be proceeding at one and the same time, of from 200 to 2000 tons burthen; and the tools and machinery in this department are believed to be equal to any in the kingdom; there are other accommodations for carrying on this branch of business in its fallest perfection.

In the ENGINEERING DEPARTMENT, the tools and machinery are of the most improved description, and capable of constructing engines or machinery equal in magnitude to any known at the present day; and are sufficient to employ, constantly, from 100 to 150 men. In connection with this department, the building and fitting of locomotives may be carried on to the greatest extent.

The IRON FOUNDING DEPARTMENT is fitted up in the most complete manner, and capable of the principle of the charmer of the principle of

150 men. In connection with this department, the business are complete manner, and the Royal Foundation of the Royal Foundatio

premises, there is a complete set of tools and machinery, of the best description, capable of employing 150 men.

In the BLACKSMITH Shop there are 12 forges, all blown by fan-blast, with cranes attached to the principal ones, and each forge having a complete assortment of tools, for engineering, millwright, and shipbuilding purposes.

The MILLWRIGHT and PATTERN MAKERS' DEPARTMENT has a full assortment of all kinds of loner and millwright's bools and fixtures, for the employment of 25 men, with a large stock of the most modern and useful patterns, which will be given over with the works.

ING and FINISHING BUSINESS, and PLUMBER and COFFERSMITH WORK, to large extent.

The whole establishment, if fully employed, is capable of turning out work to the amount of £00,000 or £70,000 a-year; and having been for averal years, and still being, in full operation, the purchaser will have the advantage of commencing business immediately. The greatest facilities of communication are afforded, by regular trading steam and other vessels, from Abordeen to London, Hull, Newastle, and Leith, in the south; and Inverness, Wick, Orkney, and Shetland, in the north.

The extensive improvements on the harbour, now going on, and the projected railway schemes in connection with Aberdeen, afford every prospect of full employment for a work of this description for a long period to come. If the purchaser were desirous of removing the plant elsewhere, the buildings are so constructed as to be convertable into other manufacturing purposes, at little expense, as there are three fixed steam-engines on the premises.

For further particulars apply to John Hunter, Esq., W.S., 13, Hill-street, Edinbürgh;

For further particulars apply to John Hunter, Esq., W.S., 13, Hill-street, Edinburgh, W. Robinson, Esq., advocate, 58, Castle-street, Aberdeen; or to Mr. Vernon, at the works, who will show the premises, and on application, forward a plan of the buildings, and inventory of the machinery, tools, &c.—Aberdeen, September 8, 1846.

\*\_\* Copies of the Plan and Inventory may be had, on application, at the office of the fining Journal, 26, Flect-street, London.

TO BE DISPOSED OF, a FEW SHARES, in a very promising COPPER SETT, situated near St. AUSTELL, in the county of Cornwall This being an undertaking of recent establishment, persons desirous of embarking in mining speculations will commence under very favourable circumstances. For particulars apply to Mr. Charles Goodall, 2, Walbrook-buildings; or to Mr. W. Smith, 10, Warnford-court, Throgmorton-street.—Sept. 25, 1846.

TO BE SOLD, OR LET, a very complete MILL and FORGE, capable of turning out 80 tons of bar-fron weekly. It is situated close by the bar-bour, at Workington, where coals are plentiful, and markets easily accessible by sea and rallway. If sold, a large proportion of the purchase-money may remain on mortgage, it destrable, to the purchaser.—Apply to Mr. Ralph Clay, Workington; or Mr. Wm. No. 4, Water-street, Liverpool.

TO BE LET, the PARK-HILL MINES, DEAN FOREST, GLOUCESTERSHIRE—containing ONE MILLION TONS of COAL, and ONE MILLION TONS of rich IRON ORE, which, being calcarous, smelts well with argillacous ironstone, and may be delivered in large quantities to the Staffordshire, Shropshire, and Welsh iron-works, at a price far below the cost of local ironstones. The mines are draftnable by level, and can be opened at a trifling expense; and, were blast-runaces erected, their produce might be smalted on the spot into excellent iron.—Apply (psipald) to Henry H. Fryer, Esq., solicitor, Coleford, Gloucestershire.

O IRONFOUNDERS. - WANTED, an ENGAGEMENT, by an active PERSON, thoroughly acquainted with every branch of the BUSINESS of an IRONFOUNDRY, and competent to take the entire MANAGEMENT of a CONCERN during the absence of the principal or principals. Respectable references and security will be given.—Address to "J. D. J.," Dunbar's Ironfoundry, Tottenham-conducted, London.

O ENGINEERS, ENGINE-MAKERS, AND OTHERS —WANTED, by a practical engineer, carrying on an extensive business in the manufacture of engines, bollers, railroad carriages, &e., in one of the most improving scaport towns in the mineral district of South Wales. A PARTNER, who possesses throwledge of the business, and who can command not less than £3000 to put into the concern.—Address (by letter) to "H. P.," Britath Mercury Office, Bristoi

TO ENGINEERS, RAILWAY CONTRACTORS, MINING AGENTS, IRONMASTERS, AND OTHERS REQUIRING FINE GREASE for MACHINERY and AXLES of every description.—JOSEPH PERCIVAL'S IMPROVED ANTI-FRICTION GREASE is—after trials on machinery and axles of every kind where constant friction is kept up—admitted to be the most useful, economical, and best preparation of the kind ever offered to the public.

nees to scientific and practical men can be given, and testimonials shown of as ellence.—Samples forwarded on application at the manufactory, Green-street, m-street, Blackfriars-road, London.

CONSOLIDATED PATENT KAMPTULICON COMPANY
Established 1843.—To be December 1943.—To be December Established 1843.—To be Incorporated by Act of Parliament.

Caphal £50,000, in £10 shares, paid in full, bearing interest at the rate of 5 per cent, per annum, with a moiety of the profits divided as a bonus.

Those proprietors who have not exchanged their original for consolidated shares, are equested to do so previous to the meeting, advertised to be held on the 26th instant—zerasic forcing and other contracts requiring the resolutions of January last to be carried nto immediate effect.

P. G. GREVILLE, Secretary.

STEAM FUEL COMPANY—(STIRLING'S ORIGINAL PATENT).—PROVISIONALLY REGISTERED.
Capital £50,000, in 5000 shares, of £10 each.
(With power hereafter to be increased to £100,000).
Deposit 1s. per share, being the sum authorised by the Joint-Stock Registration Act.

Deposit is, per anarc, seing the sum authorised by the Joint-Stock Registration Act.
The first call of £1 per share to be payable when a certificate of complete registration obtained.

TRUSTESS—Henry Larchin, Esq., Limshouse; Samuel Rohde, Esq., Crosby-square.
FAOVISIONAL COMMITTES.
William James Barshum, Esq., StratGrd
Angus Duncan, Esq., Maidenhead, and 35, Moorgate-street
George Kno. Esq., Injurious

George Knox, Esq., Islington
William Lanbe, Esq., 39, Westbourne grove
Thomas Patten, Esq., 3, Ingram-court, Fenchurch-street
James Le Cren, Esq., Moorgate-street
William Piggott, Esq., Dulwich, and 115, Fore-street
William Henry Sams, Esq., Clare, Suffolk
Gobert Shirley, Esq., 22, Grove-ternece, St. John's-wood
Thomas Stirling, Esq., Stratford

BANERS—The Commercial Bank of London.
CUTORS—Meesrs. Goddard and Eyre, 101, Wood-street, Cheapside.

Scherras — Meers. Goldard and Eyre, 101, Wood-street, Cheapside.

Sechtras — James Inglis, Esq.

Temperary Office, 31, Moorgate-street, London.

This company has been formed for the purchase and working of the patent obtained by Mr. Thomas Stirling, for the manufacture of artificial fuel—an article which is likely to be brought into extensive consumption, from the superior qualities is possesses for steam-boats and other purposes over the common coal, and for its greater economy, both intonnage and consumption; the one having been fully proved to be a saving of at least 37 per cent., and the other 35 per cent, as compared with the best Newcastle coal.

The provisional committee have had an offer of premises at Lianelly, in South Wales, where the most suitable small coal may be obtained in any quantity; the company are thus enabled, with a very trilling outley for new machinery, to commence the manufacture of 30,000 tone per annum, the profit on which may be estimated at least at £3000; to realise which the provisional committee do not anticipate the necessity of making more than two calls of £1 each; while the first call will be amply sufficient to ascertain, by practical experiment, the correct result.

Applications for sharps may be made to the solicitor; or to the secretary, at the offices of the company, \$1, Moorgate-street; where prospectuses, with full particulars, may be obtained.

No further applications for sharps can be received after the 13th instant.

MESSRS. J. PAINTER AND CO., SHAREBROKERS, NINING AND GENERAL-AGENTS, 25, CASTLE-STREET, LIVERPOOL, AFFORD EVERY INFORMATION as to the STATE of the MARKETS, PRICES, because and the state of the MARKETS, PRICES, because and the state of the MARKETS.

WILSON & FRASER, 2, WELLINGTON - BUILDINGS, LIVERPOOL, and 13, EXCHANGE-PLACE, GLASGOW, have always ON SALE PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

WILLIAM FOX AND SON, No. 53, CASTLE-STREET, LIVERPOOL, have always on SALE PIG-IRON, RAILWAY BARS, CHARS, and IRON of every description.—TIN PLATES, WIRE, &c.

WILLIAM H. SMITH, MINING SHARE AGENT,
10, WARNFORD-COURT, THROGMORTON-STREET.
SHARES in many valuable MINE: FOR SALE, and every information will be afforded, on application.

WILLIAM TRENERY, DEALER IN RAILWAY AND MINING SHARES.—ESTABLISHED TEN YEARS.

OFFICES, No. 50, THREADNEEDLE-STREET, LONDON.

MR. RYE has BUSINESS to do in Trelawney, Wheaf Gill, Mary
Ann, Condurrow, Craddock Moor, Kirkendbright, West Caradon, Gonamena, Old
Harrowbarrow, Andrew and Nanglies, South Wheal Francis, South Basset Devon and
Courtney, Concord, South Trelawney, East Crowndale, Wheal Franco, Combmartin,
and West Trethellan Mines, and West Cornwall and Cornwall Rallways.

80, Old Broad-street, London.

MESSRS. LINTHORNE, JONES, AND CO., STOCK,
MINING, AND SHARE AGENTS,

\*-\* Every information will be afforded as to the markets and prices of the above, by
application (post-paid) at their offices.

48, THREADNEEDLE-STREET, LONDON.

MR. T. P. THOMAS'S MINING OFFICES, REMOVED from No. 80, Old Broad-street, to No. 18, THREADNEEDLE-STREET.

JAMES LANE, MINING SHAREBROKER, 75, OLD BROAD-STREET, LONDON.

JOHN HARVEY, SHAREBROKER AND ASSAYER

MINING-OFFICES, No. 1, ST. MICHAEL'S-ALLEY, CORNHILL, LONDON.

Mesers. WATSON & CUELL have received instructions to PURCHASE SHARES in East Tamar Consols, South Tamar, Copiago, East Rose, Aiten, Stray Park, and Mary Kins Mines; and have FOR SALE, SHARES in all the best DIVIDEND MINES in Cornwall and Devon, paying from 18 to 20 per cent. per annum.

MINING PROPERTY.—CAPITALISTS who are disposed to MINVEST in CORNISH and FOREIGN MINES, will find the present opportune very favourable for so doing. From large sums having been lately diverted from sum a transfer of the first open sums and the present opportune pay the purchaser 30 per cent. per annum for his outlay. There are also other mit that are on the eve of paying dividends, which can be recommended with confidence. Applications to be made to Mr. JAMES HERRON, mining agent, No. 3, Adam's-combroad-street, London.

WHEAL CORNWALL: 100 shares. GWINEAR CONSOLS: 256 shares. EE: 256 shares.—[Dividend of £1 10s. per

WEST PROVIDENCE WEST PROVIDENCE: 206 shares.—[Dividend of £1 los. per share, now payable.]

MR. R. TREDINNICK will be happy to afford parties every
INFORMATION respecting the ABOVE MINES, on personal application at his
OFFICE, and profers his SERVICES to CAPITALISTS and ADVENTURERS in the
PURCHASE and DISPOSAL of SHARES of every description.

Mr. TREDINNICK being in constant communication with experienced practical agents
in the several mining districts, can, with confidence, recommend to shareholders, description
of acquiring information from personal inspection of the mines, agents on whose reports
overy reliance may be placed.

ery reliance may be placed.

MINING AGENCY OFFICE—THREE KINGS-COURT, LOMBARD-STREET.

USTRALIAN MINING COMPANY, 1, Adelaide-place, October 9, 1846.—The board of directors hereby give Notice, that, in conformity with the intimation given at the annual general meeting, held as above, on the 37th of July last, an EXTRAORDINARY GENERAL MEETING of the shareholders will be HELD at the company's offices, No. 1, Adelaide-place, London-bridge, on Thursday, the 29th day of October inst., at Twelve o'clock precisely, to receive the directors' report, gelative to the selection of a block of 30,000 acres of mining land in the colony.

By order of the board,

G. E. HODGKINSON, Secretary

TRELEIGH CONSOLIDATED MINING COMPANY.—
At the Annual General Meeting of shareholders, held at the offices of the company,
No. 57, Old Broad-street, on Wednesday, the 7th day of October, 1846, GEORGE B. CARR, Esq., in the chair.

The secretary read the advertisement convening the meeting; the directors' report, an ancial statement, also a report from Capt. Richards, were then read. Moved by D. Mocatta, Esq., seconded by S. Commander, Esq., 1. That the report and accounts be received and adopted.

That the thanks of the meeting be given to the chairman and directors, for their atention to the interests of the company.—Carried unanimously.

NOTICE TO THE MANAGERS OF MINING COMPANIES, Mr. MITCHELL (late Mitchell and Field) begs to announce, that ASSAYS and ANALYSES of all descriptions of ORES, MINERALS, and FURNACE PRODUCTS, are conducted at his LABORATORY, 23, HAWLEY-ROAD, KENTISH TOWN, to which direction all communications are to be addressed.

N.B.—Instruction in all branches of assaying and mineral analysis as usual.

SSAYING AND CHEMICAL ANALYSIS. MR. MITCHELL begs to announce, that his WINTER CLASSES, for PRACTICAL INSTRUCTION IN ALL BRANCHES OF ASSAYING AND CHEMICAL ANALYSIS, will COMMENCE on MONDAY, the 12th October next. —Inquiries respecting terms, for the paddressed to Mr. Mitchell, 23, Hawley-road, Kentish Town.

VALENCIASLATE COMPANY.

Capital £100,000, in shares of £10 each.

The VALENCIA SLATE QUARRIES, situate in the Island of Valencia, on the southerst coats of freland, have been worked on a limited scale for some years, and the superior quality of the slate, and its peculiar adaptation for sawing into slabs, have been fully reabilished.

rior quality of the slate, and its peculiar anaptation for sawing into such, and extendibled.

The demand for Valencia slab has become very extensive. Having great strength, perfectly true surfaces, and not being affected by seids or grease, nor absorbing moisture, they have been found peculiarly adapted for factory floors, and for warchouses, granaries, maltings, and stores; also for prisons, hospitals, and railway stations, and for the foors, ceilings, and roofs of public buildings. The station at Birmingham is laid with Valencia slab, and a considerable quantity is used at the Model Prison at Pentoaville, and at the new Houses of Parilsament.

There is also a large and increasing demand for these slabs in the colonies, to considering floors, and for sugar-houses.

To attain the enlarged scale of production required to meet the great demand, it is proposed to increase the capital embarked in the undertaking by the admission of new partners; and to carry it on under the powers, and with the advantages, of the Act for the Registration of Joint-Stock Companies.

Par prespectuace and detailed statements, showing the immediate and large returns to

For prospectuses and detailed statements, showing the immediate and large returns to be secured, apply to Messrs. Palmer and Nottleship, solicitors, 4, Trafalgar-square, London.

STEAM COAL—WITHOUT SMOKE, as per experiments made at her Majesty's Dockyard, Woolvich.

CAMERON'S COALBROOK STEAM COAL, AND SWANNEA AND LOUGHOR RAILWAY COMPANY.—(Completely Registered and Incorporated.)

OFFICES—2, MODRATE-STREET, LONDON.

The directors are now prepared to supply steam ship companies, manufacturers, salippers, and others, with the company's steam coal, of the rat the company's wharf at Swansea, or in London. A statement, showing by comparative trial the superiority of this coal for steam purposes over every other, and a scale of prices, may be had on application at the company's offices here, or at their wharf at Swansea.—March 18, 1846.

PATENT IMPROVEMENTS IN CHRONOMETERS.

WATCHES, AND CLOCKS.—E. J. DENT, 82, Strand, and 33, Octkspur-street, watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness Prince Albert, begs to acquaint the public, that the manufacture of his chronometers, watches, and clocks, is secured by three separate patents, respectively granted in 1828, 1840, 1843. Silver lever watches, levelled in four holes, 6 g., seek, j. gold cases, from 28 to £10 extra. Gold horizontal watches, with gold disks, from 6 gs. to 12 gs. each, j. DENT'S PATENT DIPLIEDOSCOPE, or meridian instrument, is now usedy for delivery, Pamphicate constanting a description and directions for its use is, each, but to customis gratic.

#### SWINBURNE'S ATMOSPHERIC RAILWAY.

Numerous as are the plans for prope

Numerous as are the plans for propulsion on atmospheric railways, not a week clapses without some effort of scientific ingumity being displayed, with the endeavour to obtain all the available power from the angine, prevent leakage, and secure speed and safety. We this week introduces a novel and simple plan, patented by Thomas Swinburne, Esq., of Lincoln's Inn.—Instead of the continuous tube, the inventor employs short lengths of propelling tubes, placed at regular intervals along the line; and the method adopted for working the trains on this principle will be better understood from an inspection of the annexed diagrams.

Fig. 1 a and fig. 1 b are longitudinal sections of the tube and its appartenances. A B represents one of a series of tubes, perfectly close, except at the end A, which is open, and at D, where it communicates with the exhausting apparatus. H is an air-tight piston; M is a rope, or chain, affixed to a frame k k', to bring the frame into connection with the carriages. The tube being exhausted, the apparatus, as above described, is ready to propel the train; the leading carriage R, is furnished on the under part with a hinged tappet F, which will pass over the upright bar P, on coming in contact with it, but which will not allow the bar to pass back again when the piston is set in motion; there is also another tappet at G, placed at a proper distance behind the other, and so arranged, that it will give way, and allow the upright bar P to escape at any given pressure. In advance of the tappets, are attached to the bottom of the carriage two inclined planes S S; these are so fixed, that, as soon as the upright bar P has passed behind the tappet F, they may come upon the bar k', press it down, and disengage it from the shoulders it (fig. 2), when the piston will be free to move. When the front carriage is, therefore, brought up to the upright bar P, so that it comes between the tappets, and the bar k' is then disengaged from the shoulders, the piston will pass to the end of the tube. dragging the u

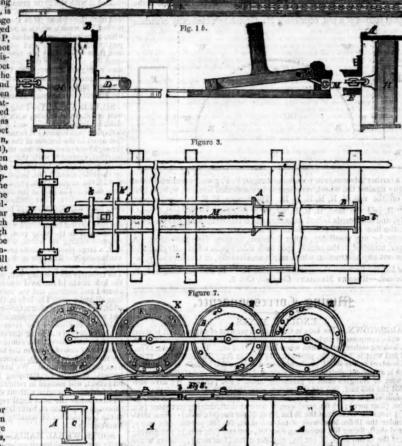


Figure !

The advantages claimed by the inventor for this mode of propulsion are, that the tubes, on account of their perfect closeness, can be more perfectly exhausted; also, being of short lengths, they can be made of greater calibre; and, in consequence, of far greater power than heretofore; and he considers it will probably be found, that, with tubes of 3 feet in diameter, and 100 yards in length, the tubes may be fixed two or three miles apart from each other. Another part of this invention consists in a peculiar mode of exhausting the discontinuous traction tubes. In fig. 3, A B is a close tube, with a piston, to which is actached a rope, or chain, M—the tube being made air-tight, by means of the stop-cock t. C is another rope, furnished with apparatus for fixing to the bar k'; this rope runs over a roller N, at a suitable distance, and connected with drawing machinery, placed in a pit, and by which the piston can be pulled from B to A, leaving a vacuum behind it; on arriving at A, the bar k' will have arrived at E; and, being passed over the shoulder that a pit, and by which the piston is drawn up, and then closed, thus preventing any point the atmosphere. The proposed plan of having short discontinuous tubes, instead of one unbroken length, the whole distance of the line, is a novelty in atmospheric railways; and if, in practice it should be found to answer anything like the expectations of the inventor, an enormous connected with drawing machinery, placed in a pit, and by which the piston at A, the bar k' will have arrived at E; and, being passed over the shoulder the piston at A, until required to start the train. Fig. 5 shows the mode of supporting the exhaustion for any length

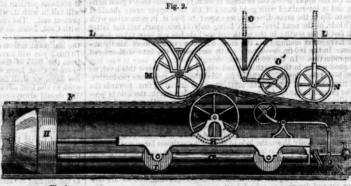
WHEELER'S ATMOSPHERIC RAILWAY.

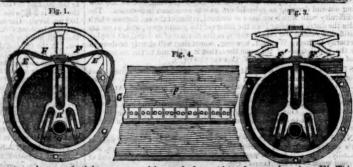
WHEELER'S

Notwithstanding the depreciating opinions of men of high standing in the engineering world, the mishaps of the Croydon line, and the unceasing tirades of a hostile journalist, atmospheric railways are still "looking up." The utmost confidence exists in the engineering talents of our time being adequate to provide a remedy for those detects which experience has shown to be inseparable from the present mode of working. The most formidable of these defects appertain to the opening and closing valve, and arise from the difficulty, or, rather, the impossibility, of keeping it air-tight under the violent action to which it is exposed. Many different forms of valves have been proposed, each of which has been supposed by its projector to be a perfect panacea for the evils hitherto experienced. Generally, however, an opinion prevails, that the open yalve must eventually be disponsed with, and a close tube be made subservient to the purpose. Some plans, ineded, contemplating this object, have been very prominently before the public; but they have, for the most part, been accompanied by evils of greater magnitude than those which they were intended to remedy. In Mr. Wheeler's recent patent for "improvements in the construction and workings of railways," the following plan is described, which not only exhibits great ingenuity, but also bids fair to realise the seeming desideratum—viz., an atmospheric railway, working by means of a piston, traversing a close tube, devoid of any valve or opening through which leakage, and, consequently, loss of power, can accrue. The following extract from Mr. Wheeler's specification will

railway, working by means of a piston, traversing a close sube, devoid of any valve or opening through which leakage, and, consequently, loss of power, can accrue. The following extract from Mr. Wheeler's specification will make his plan intelligible:—

"Fig. 1 represents a cross section of a 12-inch cast-iron main pipe; and fig. 2 is a longitudinal section of the same. This main pipe has a narrow angular slit, or opening, in its upper surface, which extends through its whole length, and is flanged at the ends, for joining any required number, to form a line. E E' are two horns, which support and guide a covering valve, or diaphragm, F F, of leather, gutta percha, or other emisable flexible material, which is bolted to the sides of the main pipe at G G. This diaphragm is strengthened, in the middle of its upper and under surfaces, throughout its length, with leather or other straps—one thickness being placed on the upper side, and two or more on the under side, so as to fill up the angular slit, or opening, in the top of the main pipe. These straps are further strengthened and protected by short brass or other metal plates, placed on their upper and under surfaces, and rivetted through. This diaphragm, or covering valve, F, ordinarily lies on the top of the pipe, closing the opening therein, in the manner shown in the ongraving, fig. 1, and making it air-sight throughout its whole length. In fig. 2, H is a piston, traversing the interior of the main pipe in a nearly





air-tight manner, and is attached to a piston frame and carriage, H'. This frame runs upon anti-friction wheels, or rollers, I I, within the tube, and carries a large intermal driving wheel, K, which projects some distance above the opening in the top of the main pipe, raising the diaphragm, F, in the manner shown in the engraving, and by the dotted lines in fig. 1. I. L represents a portion of the under framing of an ordinary railway carriage, beneath which, in suitable bearings, is placed the external diving wheel, M. A line of main pipes, thus constructed and arranged, being laid down between the two lines of rails, and suitable provision being made for producing a vacuum, by means of air-pamps, steam, or otherwise, in that portion of the main pipe which is in front of the piston, H, the pressure of the atmosphere behind the piston will cause it to advance with a force pro-

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portioned to the extent of the exhaustion. In obedience to this force, the piston and piston-frame will move forward, carrying with them the internal driving-wheel, K, which, lifting the diaphragm, F, and impinging against the external driving-wheel, M, will cause it to advance and draw with it the carriage to which it is attached. At the hinder part of this carriage there is a small wheel, N, capable of being raised or lowered at pleasure, which follows the driving-wheels, K and M, guiding the diaphragm, F, and pressing the central strengthened part thereof into its place, in the slit, or opening, in the top of the pipe.

"It will be seen that no atmospheric air can enter the main pipe, except at its further extremity, behind the piston, by which means no loss of power from leakage can possibly occur. If it is desirable to admit the atmospheric air through the piston H, in aid of the breaks in stopping the carriage, or otherwise, it can be effected by the guard or other person on the carriage drawing back the lever O, which depresses the small wheel O'; this wheel, pressing down the diaphragm F, depresses an internal wheel, P, which, by means of the lever P', raises and opens a valve, Q, in the end of a pipe, Q', which passes through the piston. When this valve is opened, the atmospheric air will pass through the piston into that portion of the main pipe which is in advance thereof. At other times the valve Q is kept closed, and the proper position of the wheel F and lever P' maintained by the balance weight R.

"Fig. 3 shows another arrangement of the covering valve, or diaphragm, F' F', which, instead of one broad piece of leather, or other elastic material, is composed of a number of strips of such material, united at the edges, lengthwise, by rivetting, sewing, or otherwise. When at rest, the upper and broader strip of leather, or other material, which is connected to the narrower strips on each side, lies flat on the top of the main pipe, as shown in the drawing—the central strengthened part of the coveri

#### Original Correspondence.

GREENHOWS GEOMETRICAL RAILWAY.

TO THE EDITOR OF THE MINES OCCESSAL.

SIR,—From his last communication to the Mining Journal, I perceive that I, among others, have incurred the displeasure of Mr. Burnier, which I very much regret, though it confirms in my mind the great truth—"Infinity betwie set;" and proves (what, indeed, I never doubted) that an angry man cannot conduct an argument with clearness and precision. When the moody Hamlet asserted that—"When the wind is southerly I know a hawk from a handsaw "—the critics are agreed that he only feigned independs; and so it appears that, when Mr. Burnier made us believe that he did not know oved from round, he only feigned independent. This, indeed, might easily have been predicated from the application of his own admirable logical formula, for which I cannot be too grateful to Mr. Burnier, as I preceive it will hereafter help me in solving many a knotly argument. But to the point—Dicinus—Civil engineers are excellent geometricians.

Aloui.—Mr. Burnier is a civil engineer.

Ergo.—Mr. Burnier.

This and figure is a civil engineer.

Ergo.—Mr. Burnier.

This and figure is a civil engineer.

Ergo.—Mr. Burnier.

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GREENHOW'S GEOMETRICAL RAILWAY.

GREENHOW'S GEOMETRICAL RAILWAY.

Sin,—If the notice with which your correspondent (Mr. N. A. Burnier, of Dufour's-place) has honoured my little brochure was without a name, I should have allowed it to pass without remark. As it is, you will probably permit me to make a brief reply—brief, because, rejecting what is extrinsic and ornamental in the criticism, I shall confine my notice to what is brought forward in the shape of argument. I must remark in the beginning that, in laying down the premises on which my advocacy of the round rail is based, my critic does not always correctly quote my own words, in which I must think they would look somewhat better than in his; neither does he very successfully endeavour to invalidate their truth. His illustrations of the first axiom I laid down, appear to me neither apposite, nor worthy of a scientific opponent.—Axiom: Machines can only act perfectly when the several parts are well fitted together.—Critic's illustration: "We do not see why it would not be just as possible to fit a flat rail to a flat tire, to fit the flange of the wheel in close contact to the side of the rail; and then, according to the principle laid down, the railway ought to act perfectly well—all its parts being perfectly fitted. My critic knows well that "the form of the rail" is the first objection I have adduced, because it will not permit the wheel to be well fitted—perfect is not the term I make use of in connection with the fitting, and hence it is that another form of rail must be sought for. Perfection must be considered rather as a comparative, than a positive, term, when applied to mechanics. Parts perfectly fitted together, in the absolute sone, would admit of no motion whatever; but parts well fitted would permit exactly the degree and faci-

lity of motion required. My critic has, doubtlessly, experienced the difference between shoes well fitted, and shoes either too large, or too closely—(or if he will, perfectly) fitted. Let him reduce this to a geometrical problem if he will; but it is an ultimate and undeniable truth, that a well-formed foot, with a well-fitted shoe, is better adapted for quick and safe walking than a deformed foot, and a shoe large and loosely fitted. I am almost ashamed to transcribe the next illustration of my critic, so adverse is it to sound and candid criticism:—"I fexact fitting (not well fitting) is the great cause of good action in a machine, let us suppose that, instead of carriages with wheels, sledges should be employed on railways, and four gun metal surfaces should be applied perfectly to a perfectly planed and smooth rail—that a flateral piece, screwed upon the rail, should keep these supports invariably in their places, so as to make of a railway a perfect sliding machine—would it act well? It would certainly present 10 or 12 times more resistance, and still be a well-fitted machine."

Suppose, in our domestic services, we were to substitute a rhinoceros for

Suppose, in our domestic services, we were to substitute a rhinoceros for Suppose, in our domestic services, we were to substitute a rhinoceros for a horse, or a hog for a greyhound, they would certainly offer 10 or 12 times the resistance to rapid muscular locomotion, and still be well-fitted animal machines. Independently of the absurdity of substituting thus gratuitously a sliding for a rolling motion, what my critic describes is surely no more like the geometrical railway than a hog is to a greyhound, or a rhinoceros to a horse. In his attempt to describe the intentions of the inventor, in substituting the round for the flat rail, my critic's illustration of the man skating might serve well enough, did an not forget the possibility of his passing over the ice on both feet at once; but when, from choice or necessity, the skater is moving on one foot only, it is necessary for him to possess the power of preserving his balance by the varied actions of his per son and limbs; and, in this respect, the analogy to the arrangements of the geometrical railway is by no means inapt.

In the subsequent paragraph, my critic remarks, that "The rebound,

P

possess the power of preserving his balance by the varied actions of his per son and limbs; and, in this respect, the analogy to the arrangements of the geometrical railway is by no means inapt.

In the subsequent paragraph, my critic remarks, that "The rebound, which results from the interval left between two sections of rail, is certainly much over estimated at one-half of an inch; and if we calculate upon the ordinary gauge, and with the ordinary rails, we find that the motion described round the opposite rail is \( \frac{1}{2} \), and the distance left between the tire and the inner edge of the supporting rail is the 56th part of an inch; and yet this would be entirely avoided were railways what they ought, what they will be—an unbroken surface." I have marked the latter portion of the sentence, because it so completely enunciates the intentions of the round rail, and other arrangements of the Geometrical System. I have only to say further, in reference to the nice calculations of my critic, that whether correct or below the truth, which they certainly are, under many and frequent contingencies, the occasional passage of the train from the line is an undoubted and great fact—causing, in the course of every year, the loss of many lives, rendering many persons lame and halt, and destroying property to the amount of some hundreds or thousands of pounds value.

The conclusion at which my critic next arrives is precisely the reverse of that, to which the premises naturally lead—that "a round rail is thus unnecessary, and the friction which it presents renders its application impossible." If the round rail is capable of obviating the causes of accident, which my critic has entirely failed to disprove, it is, indeed, very necessary; and unless Mr. Greenhow falsely, describes his experiments on that point (which I have not yet had an opportunity of seeing), the friction which it presents, instead of rendering its application impossible, is so very far short of that produced on the Trail, as to render its adoption m

critic be totally incorrect, and we must look for larger causes for the production of such great results.

When Wyatt tried an oval rail, he placed his wheel across it as a sad-

When Wyatt tried an ovar ran, he pinced his wheel across has a saddle, and he soon found what a little sagacity might have anticipated, that the oval rail, acting as a wedge, ground its way into the wheel until it became so closely fitted as to render motion nearly impossible. My critic either is, or he is not, acquainted with these facts. In either case his ignorable for he must know

cither is, or he is not, acquainted with these facts. In either case his ignorance, or want of candour, is equally inexcusable; for he must know, that there neither is, nor can be, the slightest analogy between Mr. Wyatt's plan and the method proposed in the Geometrical System of Mr. Greenhow. In thus criticising my critic, I know that I am going out of the usual course; but I could not permit such gross misrepresentations to go unexposed.

In my advocacy of the Geometrical System of constructing railways, I am not pleading the cause of one, but of many—I am not upholding abstract principles, but a great and practical system—I am not supporting individual interests, but those of the great community of mankind; for which of us is without a great personal stake in the perfection and safety of railways?—Geometricus: London, Sept. 30.

GEOMETRICAL RAILWAY-MR. BURNIER'S PROBLEMS.

SIR,-To prevent Mr. Burnier from retiring from a contest, in which, perhaps, he finds himself overmatched, I shall endeavour to answer one at least of his problems-vide his paper in the Mining Journal of the 26th of September. Mr. Burnier must admit, first, that the points of surfaces must be in contact before friction can take place; and, secondly, that something be in contact before friction can take place; and, secondly, that something more than a simple contact is required to produce friction between the corresponding points of the touching surfaces—that is to say, they must remain in contact for a definite space of time,—and any given point in either surface must be carried forward with a sliding, and not with a rotatory, motion, in order to produce any friction between the points in contact, and, therefore, between the surfaces made up of these touching points. New, since the wheel tire is a concave curved surface, generated by the revolution of a semicircle about a fixed centre, represented by the centre of the wheel—and since the rail is a convex curved surface, such as would be generated by the rectilinear motion of an equal semicircle in the same plane—it follows that any cross sectional are of the concave wheel tire will coincide at every point with any cross sectional are of the convex rail surface: and

—it follows that any cross sectional arc of the concave wheel tire will coincide at every point with any cross sectional arc of the convex rail surface; and any point of the former arc will, when the wheel is applied to the rail, be in perfect contact with the corresponding point of the latter cross-sectional arc.

Take now any pair whatever of these corresponding points, one in the surface of the wheel tire, and the other upon the surface of the rail, and let them be in contact—then, whilst the wheel remains at rest, no friction can arise; and when the wheel begins to roll along the rail, the point in question in the wheel describes a cycloid, whose base is represented by that line measured along the surface of the rail, in which line the other point is situated. Now, by the geometrical construction of the cycloid, the former toated. Now, by the geometrical construction of the cycloid, the former point, or generating point, can only once come in contact with the base of the cycloid during each revolution—viz.: at the commencement of that revolution; and, when it again comes in contact, a fresh revolution is commenced. Neither does it continue in contact—for, if it did, the wheel would be contact, a fresh revolution in the contact of the contact be at rest, which is contrary to the supposition; hence, since this point in the wheel is only once in contact with the surface of the rail during each rotation of the wheel—and since it does not, when in contact, remain in conrotation of the wheel—and since it does not, when in contact, remain in contact—therefore, from my preliminary postulates it follows, that no friction can arise from the contact of that point with the rail; and, since this is true of any point, it is true of every point in the cross sectional arc of the wheel tire—and the whole concave surface being made up of parallel cross sectional arcs, any one of which was taken, it is true of every point in the whole of the concave surface of the wheel tire; and, therefore, I have proved that no friction, or rubbing, can possibly take place during the revolution

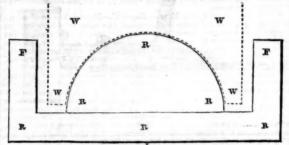
sectional arcs, any one of which was taken, it is true of every point in the whole of the concave surface of the wheel tire; and, therefore, I have proved that no friction, or rubbing, can possibly take place during the revolution of a properly-adjusted concave circular wheel tire upon a rail having a convex cylindrical surface.—["Q. E. D."]

Next, let us admit that the concave wheel tire exerts upon the convex rail a greater amount of friction, or rubbing, than the flat tire can exert upon the flat rail. Then, if the friction of the carriage wheels be thus augmented, so likewise will the bite or power of the driving wheels be increased; and since the motive power cannot act, unless the wheels have a bite upon the rails, so as to produce locomotion, and as that power is effective just in proportion to the tenacity of the bite, it follows that Mr. Greenhow's

system possesses a superiority in this respect over the present system. Thus, whether there be friction, or no friction, Mr. Burnier is placed upon the horns of a dilemma. If Mr. Burnier has ever seen, or, having seen, considered, the action and adjustment of ropes and pulleys, he will, I imagine, attach more importance to Mr. Greenhow's system, when the line of rail represents a rope, and the wheel, with its concave tire, a moveable pulley passing along it. I do not understand Mr. Burnier's second problem—it is not enunciated so as to be intelligible. If Mr. Burnier will render it so, I will answer it. When any lateral force acts to divert the proper rectilinear motion of a locomotive carriage, the concave wheel tire acts as a flange, and lateral friction takes place proportional to the force of impact, and this force of impact is again proportional to the momentum of the striking wheel—i.e., to the product of the weight of the wheel, and the velocity of impact—and this velocity is again proportional to the time during which the lateral force acts, and must, therefore, be least when the space laterally passed over by the striking flange is least—so that the less play the wheels possess, the less will be the amount of lateral friction, or rubbing, from the action of lateral forces upon the wheels, in causing them to grind from the action of lateral forces upon the wheels, in causing them to grind against the well-

against the rails.

In the present system of flanges, when any lateral force tends to throw a train off the rails to the right hand or to the left, only one set of flanges can offer any resistance—viz.: those which are upon that side of the railway opposite to that towards which the lateral force tends. But, in Mr. Greenhow's system, both sets of flanges act at once, to whichever side the lateral force may tend—and this very evident truth is, perhaps, one of the strongest points in favour of Mr. Greenhow's system. I have added a diagonal section of a rail, combining Mr. Greenhow's convexity of surface



with a further advantage in possessing flanges, F, F, giving great additional security against the wheel, represented by the dotted lines, w, w, w, w, getting off the rail, R, R, R, R, R, R. The flanges, F, F, the circular part, R, R, R, and the base, R, R, R, might, if required, be all rolled separately, and afterwards bolted together; and if this were done, so as to break joint, the line of rails would form an unbroken extension, which could scarcely, by any possibility, suffer disunion, or even disorganisation. A scraper, attached to the engine upon each side, would effectually clear and throw out any obstruction which might accidentally, or mischicvously, become located between the cylindrical part, R, R, and the flanges, F, F, of the rail.—Robert Musher: Coleford, Oct. 5.

#### Mining Correspondence.

ENGLISH MINES.

ENGLISH MINES.

BARRISTOWN.—The lode in the 24 fm. level west of engine-shaft is about 3 ft. wide, composed of carbonate of iron, blende, and thinly disseminated with lead, locking rather better than when last reported on. The lode in the 12 fm. level end west is 2 ft. wide, producing 1½ ton per fm. The lode in the 12 fm. level western end is small, producing over 1 ton per fm. The lode in western winze is at present obstructed by a slide, and not looking so well for ore. The end west of Nangle's shaft is producing about 1 ton per fm. We have suspended the end east, and put the men to sink the shaft on course of the lode. The following is a list of our prices for October month:—24 fm. level end, 5½ per fm. (four men); 18 fm. level west of flat-rod shaft, driving on tribute (six men); cross-cut north from the 18 fm. level, 4½ per fm. (six men); winze sinking under the 18 fm. level west of flat-rod shaft, driving on tribute (six men); cross-cut north from the 18 fm. level, 4½ per fm. (six men); winze sinking under the 18 fm. level, 3½ per fm, and 5½ per fm. (four men); western winze under the 12 fm. level, 3½ per fm., and 5½ per ton (six men); nad driving west of the 12 fm. level, 3½ per fm., and 5½ per ton (six men); Nangle's shaft, 3½ per fm., and 5½ per ton (six men); now surface shaft north from Nangle's 2½ per fm. (six men); shaft between Nangle's and mine, 2½ 10s. per fm. (four men); tributers, 35 men—prices, from 4½ to 5½ per ton. Clon Mines, adit end, 25s. per fm. (four men).—T. Argove: Oct. 3.

BEDFORD UNITED.—At Wheal Marquis, the lode in the 80 fm. level east

BEDFORD UNITED .- At Wheal Marquis, the lode in the 80 fm. le BEDFORD UNITED.—At Wheal Marquis, the lode in the 80 fm. level east is 2 ft. wide,—mundic, spar, and spots of ore. In the 70 fm. level east the lode is 2½ ft. wide, good saving work; and in the stopes, in the bottom of this level, the lode is worth 20l. per fm. The lode in the winze, in the 58 fm. level east, is 2 ft. wide, saving work—on the whole, the pitches are looking favourable. At Ding Dong, we have stopped the 24 fm. level west for the present. At Wheal Tavistock, the lode in the 47 fm. level, east and west, is 2 ft. wide, producing good stones of ore; and in the 35 fm. level east the lode is 2 ft. wide, producing some saving work. The south engine-shaft is 19 fms. 1 ft. under the surface, the lode is without alteration. The lode in the adit level is 2 ft. wide, composed of gossan, spar, mundic, and spots of ore.—J. Phillips: Oct. 6. CALLINGTON.—Driving east at the 112 fm. level, from Johnson's engine-

the surface, the lode is without alteration. The lode in the adit level: is 2 ft. wide, composed of gossan, spar, mundic, and spots of ore.—J. Phillippis: Oct. 6.

CALLINGTON.—Driving east at the 112 fm. level, from Johnson's engine-shaft, on Johnson's lode, we find it 3 ft. wide, with a north underlie; about 2 ft. in a fm. (in the upper levels the underlie is south); the lode shows good indications, and is intermixed with good stones of tin and copper ores; should it continue to dip in the same direction, we expect to find it in connection with Vivian's lode, at the next level—both being only 11 fms. apart, and the latter dipping fast to the south; in the north end the lode has not been taken down; there is more water issuing from the same, and presenting a more kindly appearance. In the 100 fm. level, both north and south, the lode is disordered and unproductive. In the 90 fm. level, driving south, the lode is 6 in. big, pretty good work; in the north end and winze, sinking below this level, no lode has been taken down. In the 80 fm. level the lode continues productive. At the north mine, at the 100 fm. level, we have driven 74 fms. towards the lode, the ground is hard. In the 90 fm. level, driving north, the lode is producing silver-lead ores; in the rise, in the back of the south end, and in the winze, smking upon the same, we are opening tribute ground. In the 80 fm. level the lode is producing silver-lead ores. In some of our tribute pitches good discoveries have been made, and large piles of silver-lead ores are now being broken from them. At Kelly Bray, the lode in the shaft continues large and regular, being 4 ft. wide, and underlaying to the south 2 ft. in a fm., composed of gossan and quartz, intermixed with mundie and copper ores, of a rich quality. We sampled on the 1st inst., 95 tons of rich silver-lead ores.—J. T. Phillippis, and we are now bringing out and dressing as and sequely and severe in Swanson. The

sampled on the 1st inst., 95 tons of rich silver-lead ores.—J. T. Phillips: Oct. 5 COSHEEN.—Our prospects here are every day improving, and we are now bringing out and dressing as splendid ore as was ever seen in Swansea. The great difficulty with which we have to contend, is that of the sad distress which pervades the district, arising from the failure of the potato crop; and, as we are not justified in raising the rate of wages, in the absence of so doing, our employ is necessarily limited. We trust, however, something will shortly be done to relieve the population—at the same time, that it will tend to the encouragement of our mining operations.—W. Connell.: Oct. 3.

EAST TAMAR CONSOLS.—At Whitson, in the 54 fm. level, north and south of Hitchins's shaft, the lode is 2 ft. wide, a very promising lode. In the

south of Hitchins's shaft, the fode is 2 ft. wide, a very promising lode. In the 46 fm. level south the lode is improved very much since last report. At Furzehill, the bottom levels, north and south from Harrison's shaft, are looking very well, lode 2 ft. wide, good work. In the 30 fm. level south the lode is 20 in. wide, saving work. Our tribute department is looking as well as can be expected. We expect to sample the latter part of this week 40 tons of silverlead ores.—B. ROBINS: Oct. 5.

GUNNIS LAKE.—At Chilsworthy, the lode in the 12 fm. level, west of Balley's engine-shaft, is 2½ ft. wide, producing some good saving work, and very kindly. The plat barrow road, &c., we hope to complete by the end of the present week.—W. RICHARDS: Oct. 6.

HAWKMOOR.—I beg to inform you, that the lode in the 15 fin. level, east of Hitchins's shaft, continues about 5 ft. wide, composed of spar, capel, mundic, and good stones of ore.—P. RICHARDS: Oct. 6.

and good stones of ore.—P. RICHARDS: Oct. 6.

HOLMBUSH.—I beg to inform you, that we have fixed our two other new plungers, and the cylinder cover,—and set the engine werking on Thursday evening, and forked out the water against Monday morning—the whole answering as well as we could have wished. The ground in the 120 fm. level, south of Hitchins's shaft, in much the same state as last reported on; in the 120 fm. level, east of Hitchins's shaft, the lode is 12 in. wide, and worth 6t. per fm. In the 120 fm. level, west of the winze, the lode is 15 in. wide, and worth 6t. per fm. We have resumed clearing the 110 fm. level, east of Hitchins's shaft, on the south part; the 110 fm. level, west of Hitchins's shaft, on north part, being driven far enough west to get under the winze such below the 100 fm. level, we have commenced rising to effect a communication; in the same level, driving south on the flookan part of the lead lode, we have favourable ground

for driving, with occasional stones of lead; we have six men in this end driving it with all possible speed to cut the copper lode, which is hove in that direction, and to cut then the lead lode, which (you are aware) is standing to the east of the flookan part; we hope to perform both this month. In the winze sunk below the 100 fm. level, the lode is 12 in. wide, and worth 84. per fm.; this winze being sunk about 8 fms. below the 100 fm. level, we think it advisable to suspend the further sinking, and to rise through the remainder of the ground; and have sett the men to stope the ground on the western end of the winze, from the bottom of the 100 fm. level; on the same level northward we reported last week some two or three branches, which we intersected, and thought were running east of the lead lode—but, on opening some ground on them in that direction, they proved to be connected with a part of the lead lode, which was standing to the east; the entire width of the lode is 6 ft., and is composed of spar, flookan, and spots of lead; in the same level driving south, the lead lode is 5 ft. wide, producing stones of lead; we have set two new pitches in the back of this level, at 6s. and 6s. 8d. in the 14, on the value of the lead. We have now four pitches at work on the lead lode, and hope to have more in the course of a few weeks, when we can lay open and drain the ground between this level and the 110. On Thursday next, we shall sample our lead ore.—W. Laxi. Oct. 6.

MENDIP HILLS.—In the 25 fm. level, north of Barwell's shaft, the lode

ground between this levet and the 110. On Thursday next, we shall sample our lead ore.—W. Lean: Oct. 6.

MENDIP HILLS.—In the 25 fm. level, north of Barwell's shaft, the lode contigues about 2 ft. wide, composed of carbonate of lime and flookan, ground rather hard for driving. At Stainsby's we have this day commenced dividing the shaft, fixing footway penthouse, &c., preparatory to sinking below the 38 fm. level, which will be completed by the end of this week. I have suspended operations in the 20 fm. level, north of Somers's shaft, until we have communicated it with the 20 fm. cross-cut, west of new shaft, which I hope will shortly be accomplished. We have, during the past week, broken several stones of lead from the costean pit in the eastern part of the sett (mentioned in my report of last week), which is now about 12 ft. deep; the lode is at present 6 ft. wide, principally composed of gossan and dlookan, intermixed with a small portion of manganese and calamine. To-morrow, I intend removing the men from where they are now working, about 50 fms. further west, on the same line of bearings they are now sinking, to prove whether the lode continues its regular course; if so, I would propose sinking a shaft in this part, as I think it probable we shall meet with lead at no great depth, it being in maiden ground; and what is still more encouraging, the continuation of a lode, where the ancients secured such an immense profit.—F. C. HARPUR: Cct. 5.

SILVER VALLEY.—I beg to inform you, that the lode in the 40 fm. level.

think it probable we shall meet with lead at no great depth, it being in maden ground; and what is still more encouraging, the continuation of a lode, where the ancients secured such an immense profit.—F. C. HARPUR: Oct. 5.

SILVER VALLEY.—I beg to inform you, that the lode in the 40 m. level west is 3 ft. wide, regular, with undefined walls—it is mixed with fragments of slate, containing mundic, and a very small proportion of tin. The south underlaying vein has not yet formed a junction with the lode, but they are only a foot apart in the bottom of the end, where the lode (which is but partially cut through) contains very fine stones of tin. Should the end improve at the junction, agreeably with the present appearances, the same result may reasonably be expected below the 40, where the slide will be found to have dropped on the lode, about 2 fins. below the present depth; when it will be necessary to sink the engine-shaft, preparations for which I would recommend being at once made. The lode in the 30 fm. level west is still split into two parts, which are unproductive. The pitch, in the back of this level, set on tribute last Friday, has every appearance of producing a large quantity of tolerably good tinstuff; the stopes in the bottom of this level are suspended, in consequence of the lode having been mixed with a large proportion of slate, which cannot be separated from the tinny part, as in stoping the ground unpwards. We have resumed sinking the winze, which, when communicated to the 40, extending east, a large piece of tribute ground will be laid open to be explored more advantageously. The lode in the 20 fm. level west is very large; and although it produced some good stones of tin during the past week, it is at present poor. The tributers are working well, and are earning fair wages. At the silver mine the lode in the 10 fm. level continues without alteration. The western shaft is cleared and secured, and the men are now engaged in sinking where the lode is small and poor. The lode in the level, drivin

SOUTH WHEAL MARIA .- Our water machinery is completed, and works SOUTH WHEAL MAKIA.—Our water manninery is completed, and work seels; our wheel, although undershot, is of great power, being 12 ft. breast; and he perfect ease with which it pumps the water from the shaft, proves it to be qual to more work than was originally assigned it. We are now 23 fms. in epth; at the 39, it is intended to cut our 5 lodes in depth.—J. CHANHALL.

SOUTH WHEAL TRELAWNEY.—We have driven 4 fms. 4 ft. 10 in. south

depth; at the 30, it is intended to cut our 5 lodes in depth.—J. CHANHALL.

SOUTH WHEALTRELAWNEY.—We have driven 4 fms. 4 ft. 10 in. south on Sobey's lode this month. The lode is 14 in. wide, composed of gossan and flookan. The direction of which is 26° west of south, and is set to drive at 31, per fm. There is no timber required for the level, and the ment to pay for wheeling and drawing the stuff; in the deep adit east, we have driven 5 fms. 5 ft. this month—ground very much improved, set to drive to-day at 31. 10s. per fm.; we have intersected two or three branches of gossan and spar during the past week, all of them dipping east. I have arranged to meet Capt. W. Penrose on the mine next Tuesday, to fix on a spot where the shaft shall be sunk, immediately after which we shall commence sinking by six men with all possible speed.—W. Lean, Sept. 26.—The following report is from Capt. W. Penrose, of the Caradon United Mines, dated Sept. 30: "With the assistance of Capt. Lean, I inspected South Trelawney yesterday, and find Sobey's lode to be much improved as to character, dip, and course; it is now full 20 ins. wide, with a dip about 2 ins. in 6 ins., and carrying its head 23° to the west of south, composed of a good flookan, gossan, spar, mundic, and have reason to believe will fall in with it, which will tend to improve the lode still further south of the present end. The eastern boundary opposite this point is 28 fms. 4 ft.; and I, with Capt. Lean, do not think a shaft should be sunk in that place, as the lode is likely to go out of the sett in about 90 fms. in depth; but, by carrying out the last point driven on the lode south, which is 20° west of south for about 70 fms., you will have a distance to the eastern boundary of more than 90 fms. from the back of the lode, supposing the lode keeps this last course, and to prove it, Capt. Lean will put some men to open pits at this point. I hope, in a few days, we shall be able to determine where the engine-shaft is likely to be smak to the best advantage, for the

watery country, I could not advise you to put in less than a 30 in. cylinder steam-engine."

TRELEIGH CONSOLS.—In the 100 fm. level, east of Christoe, the lode is about 2 ft. wide, producing stones of ore; the rise above the 100 will be holed from the winze over it, sinking below the 90 fm. level, in a few dzys; in the 100, west of ditto, driving on branch of the cross-course, and expect to cut the lode soon. In the 90, west of ditto, the lode small, no mineral—expect to hole to the 90, east of Garden's shaft, in two weeks; in the winze below the 90 east the lode is 2 ft. wide, worth 6L per fm.—will soon be holed to the rise from the 100 fm. level. Garden's shaft, below the 90, is sinking in the country, south of the lode about 6 ft., which is nearly perpendicular—but expect the lode in the shaft in a few fms., and expect to communicate soon to the 90 from Christoe. In the 90, east of ditto, the lode small, no mineral; in the 90, west of Goodfortune, driving on south part of the lode, not as good as last week—lode 2 feet wide, producing stones of ore. In the 60, west of Symons's, the lode is 20 in. wide, with a branch of ore—worth 5L per fm. The 50 cross-cut north is suspended; the 50 west, on the north lode, we shall drive west 3 fms., south of the cross-cut end; on the first branch we cut, which is the largest, it is about 10 in. wide, spar and flookan. In the 44, west of Symons's, lode 1 ft. wide, unproductive. The 34, west of ditto, suspended—these men are put in the 44 fm. level; in the adit, west of ditto, the lode is 10 in. wide, spar and ore. The west shaft sinking in the country.—W. Symons: Sept. 25.

TRESAYEAN.—Sale of ores, &c. (less lords' dues), 35811. 14s. 2d; costs for July and August, 32271. 19s. 8d. = 3551. 14s. 6d.: add balance in hand end of June, 6631. 8s. 7d.—leaves present balance, 1017l. 3s. 1d.—Sept. 29.

TRETHELIAN.—Sale of ores (less dues), 7394; costs for July and August, 32274. 19s. 8d. = 3651. 4s. 3494; costs for July and August of the first part of the shade of June, 6631. 8s. 7d.—

June, 6631. 2s. 7d.—leaves present balance, 10171. 3s. 1d.—Sept. 29.

TRETHELLAN.—Sale of ores (less dues), 7391; costs for July and August, 6651. 6s. 2d.—shows profit of 731. 13s. 10d.; add balance in hand end of June, 5862. 11s. 1d.—leaves present balance 6601. 4s. 11d.—Sept. 29.

UNITED HILLS.—In the 90 fm. level, the lode in the eastern end is 3½ ft. wide, coarse in quality; in the western end the lode is 4 ft. wide, 2½ ft. good ore; in the stopes the lode is 2½ ft. wide, 18 in. ore of fair quality. In the 80 fm. level, eastern end, the lode is 3 ft. wide, producing ore throughout of low quality. In driving north of diagonal shaft the ground is very hard. In the 70, east of eastern shaft, the lode is 3 ftet wide, 18 in. ore of fair quality—not looking so well as when last reported; we have cut no lode as yet in driving north; the west of James's shaft, in the stopes, in the bottom of this level, east of Williams's, lode is 2½ ft. wide, 18 in. ore of average quality. In the 60 fm. level, in this cross-cue, the ground is favourable for driving; in the shallow adit the lode is 4 ft. wide, 18 in. ore of average quality. At Wheal Charles, in

the 50 fm. level, the lode is 2 ft. wide, poor. In the 40 fm. level the lode is 2 ft. wide, 2 ft. ore of fair quality. At Wheel Sparrow, in the 40 fm. level, ast of wines, the lode is 2 ft. wide, 1 ft. ore of average quality; west of Richard's shaft, so lode broken for the past week. In the 30 fm. level the lode is 18 inclies wide, 1 ft. ore of fair quality.—T. They exam; R. Williams: Oct. 5.

WEST WHEAL JEWEL.—In the 115 fm. level east, on Wheal Jewel lode, the lode is 1 ft. wide, unproductive, ground very hard for driving.—drove last month 3 fm. 2 ft. 6 in. In the 100 fm. level, east of ditto, on the same lode, the lode is 2 ft. wide, worth 51, per fm.—drove 1 fm. 1 ft. In the 85 fm. level week, on the same lode, the lode is 1 ft. wide, of a more promising appearance than when last taken down, worth 41, per fm.—drove 8 fms. 6 in. In the 12 fm. level west, on Tolcarne tin lode, the lode not proved in the past week, worth 501 per fm.—drove 2 fms. 1 ft. 7 in. In the winze, east of Quarry shaft, on the same lode, the lode 2 ft. wide, worth 101, per fm.—sunk 2 fms. 8 ft. In the winze, in the bottom of the deep adit, west of old sump shaft, on the same lode, the lode worth 41, per fm.—sunk 2 fms. 8 ft. In the winze, in the bottom of the deep adit, west of old sump shaft, on the same lode, the lode worth 42, per fm.—sunk 2 fathoms. The adit end, that we set last month at Rose Lobby shaft, to drive west on the tin lode, is not set this setting day, in consequence of a bad run in Rose Lobby shaft, which the men are now clearing and repairing.—Richard Johns: Oct. 5.

WHEAL AGNES.—The lode is now 2 ft. wide, very good work; a large ream of water is coming out of the lode, which is considered a kindly indicam.—B. Robins.

on,—B. HOBINS.

WHEAL BLENCOWE.—I am happy to inform you, that our last return of in amounted to 4 tons 1 cwt. 0 qr. 9 lbs. No. 1 sample, 3 tons 18 cwts. 1 qr. lbs., was sold at 51t, per ton. No. 2 sample, 7 cwts. 3 qrs. 1 lb., was sold at 5t per ton. The amount of cost was 200t. 14s. 9d.—Oct. 7.

tin amounted to 4 tons 1 cwt. 0 qr. 9 lbs. No. 1 sample, 8 tons 18 cwts. 1 qr. 8 lbs., was sold at 514 per ton. No. 2 sample, 7 cwts. 3 qrs. 1 lb., was sold at 555 per for. The amount of cost was 2006. 14s. 9d.—Oct. 7.

WHEAL CONCORD.—We have six men rising above the 38 west at 50s. per fm.; the lode there is 2½ ft. wide, of calcareous spar and flookan, impregnated throughout with mundic and particles of lead. The 28 west is being driven by four men, at 50s. per fm., through a lode 1 ft. wide, chiefly flookan, with occasional spots of lead; in the same level east the lode is 2½ feet wide, producing fine stones of lead—this level is also being driven by four men, at 50s. per fm. There are four men driving the 20 east at 54.5s. per fm. on a lode too wide for the whole of it to be included in the width of the level—it is chiefly compact quartz, with a little lead on the north part. Here we hope shortly to meet with a continuation of the course of lead, from which our returns are derived in the 10. In the 10 fm. level, west from Snell's shaft, we are stoping the back by six men, at 32. per fm., and sinking a winze at 54.5s. by six men; in both the stopes and winze there is a fine course of lead, varying from 3 to 4 ft. wide; the 10 fm. level is in course of driving east from Snell's shaft, by two men at 35s. per fm.—the lode is 2 ft. wide, producing good stones of lead and zinc, presenting a very promising appearance indeed. By this you will perceive we have 82 men on tutwork, and we have also 27 labourers and mechanics in different parts of the mine, besides several women and boys dressing ores, who must be considerably augmented to be a sufficient number to prepare the ore for the market as fast as it can be raised. I would further observe, that when the tons of lead dressed on the floors, and that the kindly nature of the lode in the different levels holds out good promise of answering your most sanguine expectations. With respect to the immediate returns of the mine, I may observe, that I contemplate we can rai

may think fit.—J. B. CLYMO: Oct. 5.

WHEAL LOUISA.—The ground is still improving; the shaft is down 17 fms. To-day we have put 4 men to drive the lobby, and 2 men to throw back the earth, &c., to intersect Wheal Arvose lode. At Wheal Arvose, since our account-meeting, they have driven on their lode, and found it very promising, throwing out rocks of ore from \( \frac{1}{2} \) to \( \frac{1}{2} \) cut.each.—J. CHYNOWETH: Oct. 6.

WHEAL WALTER.—We have completed the London shaft to the depth of 30 fms.—the ground in the bottom being, however, much harder; we have set a plat to cut at this level, which, when done, we shall have a cross-cut of about 4 fms. to drive to intersect the lode, allowing the underlay to be 3 ft. in a fm. This lode we expect to cut by the end of the month. The engine will go to work in the course of three weeks from the present time. Two men are driving on B lode, at 30s, per fm. There is at present no improvement; but I think it right to extend this level so far as the cross-course. We have 12 fathoms further to extend the adit to cut the D and E lodes. The cost for Sept. will be about 1901.—James Offe: Oct. 6.

#### FOREIGN MINES.

Mines         No. of men.         Tons ore.         Per ct.         Tons copper.           Halpas         20         70         7a         5-25           United Mines         12         30         4         1-20           Ryper's         10         12         7         0-84           Mancur's         10         16         6         0-96           Old Mine         2         10         5         0-50           New lodes         6         5         7         0-35           Total         60         143         9-10	LTE	N MINES.—Th	following	is	the estim	ated p	roduce fo	r August
United Mines         12         30         4         1:20           Ryper's         10         12         7         0:84           Mancar's         10         16         6         0:96           Old Mine         2         10         5         0:50           New lodes         6         5         7         0:35	1000	attics.	240. 01	me	m. Toms c	ne. r	erct. 10	ns copper.
United Mines         12         30         4         1:20           Ryper's         10         12         7         0:84           Mancar's         10         16         6         0:96           Old Mine         2         10         5         0:50           New lodes         6         5         7         0:35	1	aipas	** ** ** ** **	20	***** 70		74	5.25
Mancur's 10 16 6 0.96 Old Mine 2 10 5 0.50 New lodes 6 5 7 0.35		Inited Mines		12	30		. 4	1.20
Old Mine 9 10 5 0-50 New lodes 6 5 7 0-35	7	typer's		10	12		. 7	0.84
New lodes 6 5 7 0 . 35	3	fancur's	********	10	16	*****	6	0.96
month to the property of the contract of the c	(	old Mine	*********	3	10		. 5	0.50
Total 60 143 9:10	1 2	lew lodes	** ** ** ** **	6	5	****	. 7	0.35
Total 60 143 9:10				Andre.	Harrison			-
		Total		60	143			9.10

the stope on the caunter lode, has also somewhat deteriorated; but that on the south lode at the surface has improved, and holds out good prospects as the workings descend.

Mancur's.—The lode in the adit level continues fluctuating in its produce; but, at the present comparatively trifling depth, the prospects may be considered unusually favourable. The ground in the stopes is still hard and compact, but continues to yield a fair return of dredge of the usual quality. We are now entting a winze-plat, and making other preparations for sinking on the course of the lode, under adit, where we hope to open some good reserves of orey ground.

Old Mine.—Our operations are still confined to the halvan heaps; but our progress is slow, owing to the scarcity of water for the machines.

New Lodes.—The prospects here are also less flattering tahn when last reported. The lode in stope, No. 16, of last month, is small and poor, and its further prosecution has been suspended—as has also the new level No. 17, where the clay-slate stratum has completely displaced the lode. In level No. 18 (in the list of settings for September, No. 16), the lode is large and regular, but poor. Another promising vein, about 1 ft. wide, has been found between the Old Mine and Ryper's. A bargain (No. 17) has been set to two men, but I fear the winter will put a stop to our proceedings before it can be properly explored.

Ore Dressing.—The drought continues to impede our progress in this department; but having forced the operations as much as possible during the summer, we shall experience no difficulty in returning the whole of our stocks of ore by the end of the month. The two deliveries (No. 3 and 4) to the smelting-house for August, amount to nearly 25 tons of copper: we expect to return about 15 or 16 tons more by the end of this month, which closes our mining year. The result of our proceedings will duotabtedly leave a much larger profit than could have been anticipated at the commencement.

ANGLO-MEXICAN.—Guanaxuate, Asqust 24.—I have much p

ANGLO-MEXICAN.—Guanaxuato, August 24.—I have much pleasure in stating that, since the date of my last letter, the results have been altogether improved, but I cannot say that our prospects are much brighter. Since my last, I have visited the mine, and examined very carefully the excavations, particularly those in San Casimiro, and can only remark that it may continue to give us a few more good sales; but as the best frutos are extracted from a mere bunchy string in the pozo of San Casimiro, I have no opinion that it will last long, or to any depth—therefore, all we have to do, is to make the most of it shillst it holds out. I now proceed to lay before the board the weekly results:

THE REAL PROPERTY.	SE 9		-		DOLOTE	-	e course file	weer	цy	res	u
Week endi	ng	Mem	oria.		Sal	e.		P	ofit	87 Y	98
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D04200.F86		10 037	0 10		3425	3	0	610	A	•	
San Street		946	0 11		3930	2	0	1010	Ä	-	

al number of cargas sold, 1063, at the average price of \$12\frac{1}{2}\$ per carga: this was an increase both in quality and quantity.

Siresa—The accounts are not yet sent in, but I do not expect any other parention this month than simply the rent.

BOLANOS MINES

BOLANOS MINES.—Zacotecas, August 15.—Since my respects per last packet, of which a duplicate is enclosed, I am in receipt of your secretary's favour of the lat of June.

EL BOTE MINE.—This negociation was transferred to the company on the 3d August. My inspection of the mine has shown me that its value has not been overrated; indeed, I have no doubt, that at the present moment 4000 cargas of ore might be broken per week, by putting 50 pairs of hands to work by day, and as many by night; the bottoms of the Guadalupe workings being still practicable, though incommoded by water, and, independently of these bottoms, at least 2000 cargas may be broken, and, from what I can judge so far, the average ley will be hardly below 8 mcs. per monton. There are, however, far, the average ley will be hardly below 8 mcs. per monton. There are, however, many reasons why it would be inadvisable, as well as impracticable, to force the raising of ore at present. By the end of next month, however, I shall be prepared to break as much ore as can be raised by one malacate (without interrupting the sinking of the shaft), or, as we shall be able to reduce, I think there will no difficulty in raising 2000 cargas weekly, and, when the bottoms of Guadalupe are drained, the quantity will be immediately doubled. The haciends of Cluco Senores has required a much larger expense for repairs than the amount I mentioned; everything, however, is now nearly ready for going to work. The patio is what delays us at present—it required to be newly flagged, and the stones come in very slowly—so that it will still require three of onext month, I hope to have the hacienda at full work. When we once begin to wash, our produce will, no doubt, quickly repay the present outlays. 2000 cargas weekly, of 8 mcs., will leave \$6000 profit.

SAN CLEMENTE SETTS.—The working in these mines has gone on about the same as before. The west end of La Luz shows some signs of improvement this week. Rather than resume any further expense in drainage, my object for the future

perceive by the accounts that, with this economy, we are just able to cover expences in these mines.

San Francisco de Paula Mine.—August 17.—Beyond the vein of ore, reported in my last as cut in the third cross-cut, two other veins have been cut in equally good ore—the three being within the space of three varas, so that they can be embraced by one end. An end has been opened to the east upon them, and worked for a fortnight; the ore fell off immediately, and at last disappeared, but it remains in the bottom. The cross-cut, No. 3, has, hast week, cut a stream of water, which will, no doubt, drain the winzes of the level No. 2, and enable us to work upon the ores there; it has, however, for the time, driven us out of the shaft, and made another malacate necessary—the delay is very unfortunate, for it becomes continually of greater interest to gain depth in this mine. The shaft is now about 17 varas below the third cross-cut, and at 25 varas I propose opening the level No. 4. In the workings of the buscones the veins of ore have improved, and we have raised as much as 100 cargas in a week, of a ley probably of 15 mcs. This morning the barreteros have struck, in consequence of a reform I ordered in the mode of dividing the ore; I do not, however, contemplate the turn out lasting many days.

Celestina Mine.—During the past month this mine was worked a la carga

however, contemplate the turn out lasting many days.

Celestina Mine.—During the past month this mine was worked a la carga at \$2 per carga; but, owing to the opinion of its being unhealthy, not more than nine paradas went to work by day only—this small number of hands broke about 50 cargas weekly, of a ley of 16 mes, per monton; but, since the last fortight, they also have abandomed the mine, and nothing remained but to offer it on partido; I gave notice that it would be so given this week, with a partido of one-fourth, and about 30 paradas had offered to come to work this morning, in the understanding that the division was to be made in closed bags; but it appears that the malcontents of San Francisco de Paula have induced them also to strike for the common mode of partido, and the mine is, consequently, not now at work; I hope, however, the difficulty will be got over in a few days. If 30 paradas go to work by day, and 20 by night, I have no doubt we shall raise 200 cargas weekly, which will immediately leave handsome profits and pay off the debt. The tutworks have suffered occasional interruptions from want of hands, and I have had to induce them by raising the prices. The north cross-cut of the 64 vara level has continued in yein rocks, and last week cut some metallic threads of no promise; as soon as we get quite through these appearances of lode this work will be abandoned. The cast end of 64, driving towards the winze of Celestina, has improved somewhat in character; and as it towards the winze of Celestina, has improved somewhat in character; and as approaches that winze, which is in good ore, it is to be hoped it will still improve—I am very anxions to complete this communication, as the best am most abundant ores are left in the winze of Celestina, for want of ventilation and divained.

prove—I am very austrons or most about at the winze of Celestina, for want of ventilation and drainage.

Quicksilver.—I have to-day bought 34 qls. from Guadalcaza at \$140, returning the iron bottles, which makes the price equal to about \$143. During the past month 175 qls. of quicksilver were produced in Guadalcazar, all by poor people, who distil the metal in earthen pots—there being neither furnace nor retort in use there, and very little capital engaged in the mines. A gentleman in Mexico has, however, taken possession of several of the mines, and proposed working them extensively: and it is evident, that if 175 qls. can be produced by the small people, as at present, 500 qls. might be produced monthly, and, probably, will be ere long.

Celestina Mine again.—I have just received advice, that the barreteros have been persuaded to go to work, and that 27 paradas have gone underground; if they continue constant we shall see no more losses.

Statement showing the General Results of the Mines and Hacicadas for July:—

Statement showing the General Results of	the Mir	168	ano	l Haciend	as for J	uly	:
Mines.	Pro	ofit.			Lo	35.	
San Clemente Mine	81010	2	0		-	-	
San Nicolas	3004	2	5		-	-	
Malanoche	-	-			8297	7	5
Veta Bella	-	-			14	0	0
San Rafael	territ.	-			6622	3	5
Celestina	-	-			622	4	7
Loreto	-	-		*******	52	6	.2
Disputed ground		4	3		-	-	
Haciendas	1179	6	6	******	-	-	
	87936	7	6		\$7609	6	3
Loss	7609	6	3		. 1.310	10	0
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PACHUCA MINES.—August 28.—Rejona.—The cross-cut, driving south of San Miguel shaft, has not yet cut the main part of the lode; and in the bottom of the shaft, sinking on the north part, the lode is still kindly, and contains a little ore.

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Esperanza.—No alteration has taken place in the 95 vara level, west of San Buenaventura, since last month. We have cleared a pit near the western part of this sett, and adjoining that of Santa Clara, which has been named San Guillermo; the bottom was found at about 9 varas from surface, and the sinking has been commenced in a large lode, altogether not less than 20 varas wide, as it is very near the point of junction of this vein with that on which the San Pedro shaft is now sinking, about 200 varas further west. This appeared to me a good situation for a work of trial, as there are several large lodes which join that of San Pedro a little further west; the part on which the pit is sunk is composed of quemazon, and assays about 3 mes. per monton, the ground is easy for sinking, and the work will be carried on very cheaply.

Guadalupe and Santa Clara.—I was very much pleased with the appearance of the lode in the San Pedro shaft, which is already beginning to produce ore; the last 2½ varas sunk having yielded 13 qls. of azoque, assaying 15 mcs. per monton, and 8 qls. of 8 mcs., and one stone, which I brought home, assayed 59 mcs. The total depth is 59 varas. The fact, that we are in this place exploring ground that will afford a profitable working, is satisfactory; and from the great width of the vein (a small portion only of which is being examined by the shaft), we may, I think, reasonable expect to find a large quantity of ore. It is not well, however, to be too sanguine until we open more ground; but, it is evident, the lode is improving in depth.—Costs in July, \$837.

REAL DEL MONTE.—Mineral del Monte, August 27.—I have read the report of the directors, made at the annual meeting of the proprietors, held the 28th June last; it is upon the whole a satisfactory one; and I which will occasionally hinder the work; but the 25 varas, which remain to be sunk to the level of Santa Teresa, I expect will be completed by the end of the year—at which depth it is proposed to drive a cross-cut to the bottom of the diagonal shaft, and extend a level west under the San Enrique workings, and north on the Santa Brigida vein: by this latter level, we expect to draw off a part of the water, which goes to Acosta, and which at present causes a serious difficulty in carrying on several important works in the latter mine, and particularly that of sinking San Pedro shaft. The 95 vara level, north of Dolores, on the Santa Brigida vein, was communicated to the workings above the Aviadero, on the 18th instant; and now that a good ventilation is obtained, we have increased the number of barreteros, who are breaking azogue ores, of about 12 mes, per monton, from the ends of San Eduardo winze, and from a new winze below the 95, a little further south, called Santa Clara, which is producing, beside the azogue, a little smelting ore. In the Santiago level, west of Dolores, we have been lately driving a cross-cut south, near the present end, to examine that part of the vein, which we sind altogether rather more than 4 varas wide, and orey throughout. On the north part there is a branch of solid smelting ore, about a foot wide, and the remainder azogue, interspered with bunches of the best class. This place, including the workings of San Earique and San Pablo adjoining, produce about 80 cargas of smelting ore per week, assaying from 140 to 150 mes, per monton, and about 200 cargas of azogue of 16 to 18 mes, per monton. This level is again driving on the north branch, which continues to preserve its usual regularity as to size and richness, and presents a very fine appearance: the same may be said of San Enrique, and the labores in its immediate vicinity, which are at present producing very good ore. We propose shortly to commence sinking below the Santiago level, but 1 expect we shall not be able to go many war

that rods are fixed in the San Juan level. In the mine of Santa Tries, there is a large quantity of azogue are in sight, containing a ley from 12 to 14 marcs per monton. All the ore from this mine is now being sent to Sanches, to be reduced in the barrels. In the San Pedro shaft, at Acosto, the preparations for fixing new pitwork at the San Enrique level having been completed, we are preparing to sink; but you will notice, that Captain Skinfill describes the water as being very abundant—indeed, I have seldom seen such a large stream in any mine as that issuing from the Aviadero: the fact that the large engine is worked 12 strokes, and the small engine 11 strokes per minute, to keep the mine drained, will give an idea of the quantity. The San Enrique or 156 van level has now been extended about 10 varus west, and 9 varus east of San Podro shaft; the lode throughout this distance, and in each of the present ends, is a very promising one—the assays, however, have thus far been generally very low. The Aviadero level, east of Santa Brigida vein, is also a very promising place. You will observe, the mine report states the lode to be 6 ft. wide, and orey throughout; and as this level is exploring a piece of virgin ground, there is reason to hope for improvement. The San Pascual winze, sinking below the San Ysidro, is not so good as it was above, although it is still producing a large quantity of azogue, and a little smelting ore. The great mass of the vein in this neighbourhood is good azogue, with occasional branches of rich amelling ore. At Sacramento, the best labor is about 240 varus north of the shaft below the adit, which, for some time past, has been producing from 90 to 100 cargas per week, assaying 12 mes, per monton; and this ore is raised very cheaply, as it is composed entirely of fierras,—and require, therefore, labourers only with shovels to fill it up, and carry it to the shaft. At Rosario, but little ore has been raised during the last for weeks, will be seen in the following statement:—Weeks and the a colocas, August 15.—Since my respects per last flat rods are fixed in the San Juan level. In the mine of Santa Ynez, there is an enclosed, I am in receipt of your secretary's falarge quantity of azogue ore in sight, containing a ley from 12 to 14 mars

country. I beg to hand you inclosed a bill in favour of the directors for 2000*l*, ST. JOHN DEL REY MINES.—Morro Velho, July 18.—Heads working during 18 days, 67-72. There have some impediments to the drawing, in consequence of the syphon reservoir and leat giving way. The stone pillar in the Gamba is completed, and is well done; a stull, which has been fixed over the stopes in this mine, for the safety-of the people, has now to be loaded, and then this mine will be safe. The mechanics are getting on with the work for the Lyons' stamps, and the excavation for the new wheel pit is at length commenced, and the breaking of stone for building its wall.

menced, and the breaking of stone for building its wall.

UNITED MEXICAN MINES.—Guanaxuato, August 23.—Mine of Rayas—The most favourable appearance now presented in the mine is in the working of Santa Cecilia, which has improved considerably since the last report, and gives us hopes of still further improvement. A little apolvillado continues to be extracted from San Simon; but the water has recently increased rapidly upon that point, and has somewhat impeded the working. I subjoin a statement of the produce and outlay of the last four weeks, by which you will observe that the joint sales with buscones have increased. The outlay has been increased this month by the purchase of a quantity of iron, and of 50 horses for the malacates.

Cs. 1314 24 82605 1 6 8830 7 0 Increase. Increase. Decrease. Decrease. Decrease.

Quicksilver.—Since my last I have not received a bottle from any quarter. The bad condition of the roads from very heavy rains, combined with the disturbed (and, consequently, unsafe) state of the country, prevents the arrieros from moving. The 80 flasks landed at Vera Cruz have been in Mexico some time, and the conductor has engaged to bring them here; but he has not yet succeeded in doing so. Our agents have also contracted with an arriero for the conveyance of the second shipment from Tampico; in their last letter, they inform me he had not been able to depart, owing to the rains.

Remittances.—In my last I mentioned my intention of remitting \$25,000 by the conducta, which usually leave this city for Tampico about the end of this month; but the revolution which took place in Mexico on the 4th August, and has spread through the country, renders its departure totally impossible for the present.—W. Heath.

Report on the State of the Workings of the Mine of Rame.

Report on the State of the Workings of the Mine of Rayas.

Report on the State of the Workings of the Mine of Rayas.

August 22.—La Purisima.—The ore produced on hacienda account, from the rubbish extracted by the great shaft, continues without any increase.

San Lorenzo.—Eight pair of barmen by day, and an equal number by night, have been employed in the various parts of these old workings, in any place where ores are to be found, which can be thrown down with safety. The quality of the ores that are being extracted at present is of an ordinary character, while the quantity has likewise decreased.

San Simon.—The extraction of ore from the south-east side of this point has been sufficient to compensate the falling off in San Lorenzo; the ores are found against the upper part of the lode, and these will be taken out previous to extracting those in the lower part, referred to in last month's report. Some bunches of rich classes are occasionally met with amongst the common produce, which also is of good quality. A small quantity of rich ore has been extracted from the pit of San Pablo, in San Cayetano. Six pair of barmen are employed in these two workings by day only.

also is of good quality. A small quantity of rich ore has been extracted from the pit of San Pablo, in San Cayetano. Six pair of barmen are employed in these two workings by day only.

San Miguel.—In the pit of San Dario there is at present rather a well-formed body of ordinary ore, which contains some narrow threads, and small bunches of good quality. The end to the north-west issuspended for the present, having fallen into a very impoverished state. From the roof of San Dario a small portion of common ore is extracted, and also from San Pedro. Twelve pair of barmen have been employed by day, and an equal number by night.

Santo Toribio.—During the last month, 7.38 varas have been driven in this cross-cut; in the advanced part, there are now some narrow veins, with slight indications of silver; the end to the south east presents little variation, and advances slowly, as only 4 pair of barmen are employed between day and night.

Santo Cecilia.—In following up this work of research to the south-east, arrow band of ordinary ore, which gave per assay 281 mcs. per monton, has been laid open against the lower side of the end. As soon as the end advances sufficiently, an investigation will be made, by driving into the lower part of the lode, at the point in which the ore has been met with; four varas have been driven in the end since the last report. The water in the great shaft has risen to the level of San Simon, and extended itself a considerable distance in the same, towards San Cayetano; but no interruption has yet taken place in the same, towards San Cayetano; but no interruption has yet taken place in the same, towards San Cayetano; but no interruption has yet taken place in the same, towards San Cayetano; but no interruption.—In one of the points worked on joint account by buscones, an improvement has taken place during the last few days; there is nothing worthy of particular remark in the other ownes. s: there is nothing worthy of p points.-G. R. GLENNIE.

NEW MINE AT SALTASH.—The best indications of a most prosperous copper mine have been discovered at Moditonham, near Saltash, upon the estate of F. Cresswell, Esq. The finest mundic has been found within 2 ft. from the surface of a hill facing the lake. The name given to the new mine, upon which operations have commenced, is "Wheal Sophia."—West of England Conservative.

or a nut mening the take. The name given to the new mine, upon which operations have commenced, is "Wheal Sophia."—West of England Conservative.

Consert Irons. Works.—This extensive concern, which is situated near Shotley-bridge, Newcastle-on-Tyne, commenced their operations in 1841; and, by the end of the present year, their works will be the second largest in the kingdom. Their "royalty" (or right of working the minerals) extends over a circle of 28 miles. Before Christmas next, they will have at work 14 blast-furnaces for smelting iron; two mills, capable of pudding, hammering, and relling 900 tons of bar-iron per week; 12 refineries for refining and founding; 22 steamengines to turn machinery; and 35 coal and ironstone pits to supply materials. The population connected with these works will, by that time, be about 10,000, all brought together from different parts of England, Wales, and Scotland, since the latter part of 1841. In addition to these, there are about 2000 of the old rural population of the district. The establishment is under the management of Messra. J. Richardson, C. J. Bigge, W. Cargill, &c.

In the town of Sheffield there are 5330 persons employed in the various processes of the manufacture of pocket-knives. In this number are included 2400 setters-in; 480 pen blade grinders; 150 pocket blade grinders; 270 blade forgers; and 110 scale forgers.

#### TRELEIGH CONSOLS MINING COMPANY.

The annual general meeting of the shareholders in this company was held at the offices, Old Broad-street, on Wednesday, the 7th inst.

G. B. CARR, Esq., in the chair. The report of the directors, with a report from Capt. W. Richards, and the accounts, were read by the SECRETARY, of which the following are copies, with an abstract of the accounts as submitted.

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The report, which will be read to you, from Capt. Wm. Richards, our manager, supersedes the necessity of any lengthened remarks by your directors as to the operations upon the mine during the past year. The encouraging prospects which were adverted to in the last among a report, in reference to the ground east of Christoe shaft, have been fully readised; want the raisings of ore, of an excellent quality, from the back of the 90 fm. level, have countributed mainly to the support of the regular mounthly samplings. The 100 fm. level, have countributed mainly to the support of the requial mounthly samplings. The 100 fm. level, upos the sense lode, is now approaching the ore ground gone down from the 90 there are still 2 fms. or 3 fms. yet to drive to come under it; and, from the bulcation in the bottom of the 90 fms. level yet with 100 fms. level, and the level a very fms look was intersected, which has been driven upon east and west for about 29 fms., laying open some valuable ore ground. These are all the operations at present carried on at Christoe; but, when the two ends, between Christoe and Garden's shafts, at the 90, are communicated, which will shortly take place, it is intended to extend the 80 fm. level, which has only been partially driven.

With respect to Good Fortune, some disappointment has been experienced in prosenting the deeper levels, which have not realised the expectations that were anticipated. The shaft has been sunk to the 80 fm. level, and the lode driven upon for a few fathoms west, and, although very large, is unpromising; this level has, therefore, been suspended. The 70 fm. level is the prosent promising; this level has, therefore, been suspended. The 70 fm. level is the prosent promising; this level has, therefore, been suspended. The 70 fm. level is the form the reserve of ore in the ob and

mg, ere rong, a man pront william	at a	C 44 Z	ALL AFTO.		
Receipts and E:	rper	idi:	ure, for Twelve Mon'hs.		
Balance last account £1132	16	5	Mine cost, Sept. to Aug., 12 mo. £9651	2	7
Calls received 262		0		7	10
Sales of copper ore 11,448	15	6		9	8
Sale of materials, &c 117		2	Overpaid call 5	0	0
			Balance 2418	4	0
Total£12,961	4	1	Total£12,961	4	1
Ass.	ets o	and	Liabilities.		
Balance £2418	4	0	Merchants' bills £1520	0	9
ore sold 27th ult 969	0	0	Lords' dues owing 358	0	0
Balance due on last call 31	5	0	Cost 60	0	0
Materials unsold 90	0	0	Balance 1570	8	- 3
Total £3508	9	, 0	Total £3508	9	0

henceforth the directors would convene such meetings. He, with his co-directors, were most anxious to meet the wishes of the proprietors; but it was at the same time necessary they should adhere stretly to the ruies by which the company was governed. A case had been submitted to their solicitors (Mesers. Atkins and Andrews), whose letter in reply should be submitted to the meeting, from which it was manifestly clear that the directors had no power; however, he was ready to meet the wishes of the proprietors, so far as was practicable. This assurance satisfied the meeeting, and the subject dropped.—A further discussion ensued, on the subject of the election of two additional directors; but as such were deemed unnecessary, and a general expression of satisfaction being manifested, as regarded the ability and zeal of the present board, the question was not pressed.—The reports and accounts having been passed unanimously, and a vote of thanks given to the chairman and directors, the meeting adjourned—Wheal Robins.—At a meeting of adventurers, held at Webb's Hotel, Liskeard, on Wednesday, September 30, the report of the committee, appointed at the last meeting to examine the accounts from the commencement of the mine to the end of Jane, 1846, having been read, was approved and copied in the cost-book. The accounts, with the cost of July and August, showing a balance against the company of 2526.8s. Id., were allowed and passed; and Messrs. Lyee and Peter instructed to take such legal proceedings as may be necessary for the recovery of all arrears of calls now due.—It was also resolved, that the workings of the mine be immediately abandoned, and the materials drawn to the surface, and that the same be offered for sale, or disposed of, in such manner as a committee, consisting of Messrs. James Clymo, Thomas Militon, the purser, and captain, may think proper, and that they be requested to carry out this resolution with all possible despatch.—To meet the present liabilities of the mine, a call of 10s. per share was made,

CARADON UNITED MINING COMPANY.

A general meeting of the shareholders was held on Monday, the 5th October, at the offices of Messrs. Watson and Cuell, St. Michael's-alley, Cornhill, at which the holders of 191 shares, out of 256, attended.—The accounts submitted were received and adopted, and the members of the committee of management releated for the ensuing 12 months.—It was resolved, that immediate steps be taken to enforce the arrears of calls, and, if necessary, that the merchants be requested to sue the defaulters.—A call of 2L per share was made, payable during the present month.

The following statement of accounts was submitted:—

210 0 0 6 11 6 6 11

Dn. London expenses for 12 months.  Merchants' bills paid (due last meeting) Five months' costs (from April to August), including merchants' bills, per cost-sheet Balance in hand.	632	**	06 88
Total	€837	4	5
Cn.—Balance in hand at last meeting, 4th May	£105	5	5
Cash since received for arrears of call then made	155 576	19	0
Total		4	5
Bill outstanding £40 13 5   Balance in hand	£138	3	8
September cost 146 0 0 Arrears due on calls	328	0	0
Total£186 13 5 Total		3	8

The following report from Capt. W. Penrose, dated Oct. 3, was then read :

retaries for their gratuitous services, and the other officers of the company, the meeting separated, pleased with the prospects of the mine, and the proceedings of the meeting.

WHEAL MARY MINING COMPANY.

A meeting of adventurers was held at the mine (Lanivet, near Bodmin), on Thursday, Sept. 30th.—John Edwards, Seq., in the chair.—The Chairsain having made a few preliminary observations, relative to the prospects of the mine, and the accounts, called upon the purser (Mr. W. P. Williams), who presented his accounts, showing:—Balance brought forward from end of April, 4l. 16s.; May cost, 75l. 13s.; June cost, 73l. 13s. 7d.; July cost, 63l. 7s. 4d.; merchants' bills, 258l. 16s. 3d. — 476l. 6s. 7d. By call of 1l. per share, made July 1, 256l.—leaving balance against the adventurers, 220l. 6s. 7d.—The following resolutions were passed unanimously:—That the foregoing accounts, having been examined, be allowed, and the balance of 220l. 6s. 7d. be carried to the next account.—That a call of 2l. per 1-256th share be now made payable into the Devon and Cornwall Bank, Bodmin, on or before the 10th Oct. next.—That the purser be directed (after demanding) to take the necessary steps to recover all arrears of calls.—That Capt. Peter's salary be increased to 4l. 4s. per month.—The following report from Capt. William Martin was read to the meeting:—In compliance with your request, I have minutely examined this mine; I found the lode No. 1, explored at the adit level, about 100 fms. in length, at a depth from 6 to 12 fms. below the surface; this is a lode of an unusual size, being from 10 to 20 ft. wide; the middle part, from 4 to 6 ft. wide is composed of a bard kind of green stone, thickly interspersed with veins and branches of strong rich yellow copper ore, and the other parts of the lode are soft gossan, prian, with rich veins and branches of copper ore and blende; the underlay is north, from 2 to 3 ft. in a fm., and the country is a soft white killas; the indications and character of the lode lategether present a very tion, and will intersect all the other lodes in the western part of this mine.

No. 9 is about 2 fms. south of the caunter, and driven on about 3 fms.; this lode is also much of the same character and qualities as the before-mentioned lodes, there is a cross-cut driving north, and is now about 100 fms. from the engine shaft; about 90 fms. from the shaft a lode is intersected, 2½ ft. wide, a good gossan and near a soft elvan course—this elvan course appears to be from 3 to 4 fms. wide, running north-east and south-west, and underlaying south-east about 4 ft. in a fm; this elvan course, I have no doubt, will have a good effect on the lodes in depth at its intersection. Taking a general view of the whole, and looking at the flattering indications so near the surface, the prospects, number and size of the lodes, togetfler with the congenial character of the country, there is no doubt on my mind but that a few fms. deeper will enable this mine to be placed on the list of rich mines. I must say, according to my judgment, you are pursuing a very proper course of working; and, looking at the situation of the lodes, seven of them being south of your engine-shaft, and all of them underlaying north, your engine-shaft is in a very proper place, and a good distance from the western part of the sett; I also very much approve of the plan you are about to adopt in fixing machinery to whim for draining the water from the shaft below the adit with pumps instead of barrels—this mode of working will greatly facilitate your sinking, and will save a great expease in both labour and time. I think you will get down with the pumps 12 or 15 fms. below the adit; then drive to intersect the lodes at that level, where, I have no doubt, you will find good courses of ore on several lodes; I never yet saw such indications fail. I would advise you to lose no time in looking for a suitable engine, and would recommend you to have one of not less than a soinch cyclinder; you will be sure to want it very shortly, and your present engine-shaft is t

Hobb's Hill Mine.—A general meeting of the adventurers was held on the 6th inst., at which it was shown that several calls remained unpaid; and it was resolved, that the purser do make another application for the amount now owing, or to offer, on the part of the company, to any shareholder, who may feel disposed to give up his shares, the option of doing so, on condition that they send a transfer for the same to the purser, who will return a full discharge for any liabilities on the mine, as well as the arrears now owing; that beyond this, no notice be given; and that, if one of the above propositions be not complied with, at the end of a week from the date, steps are to be immediately taken in the Vice-Warden's Court—the above not to apply to the calls due by Mr. H. Westeott, of Plymouth; that a call of 11, per share be now made—10s. to be paid on or before Tuesday, the 27th inst.; and the other 10s. on or before Tuesday, the 1st of December next.

CLEVELAND MINE.—At a meeting, held at the mine, on the 80th of Sept., the accounts were examined and passed, from which it appeared, that the costs for five months ending August, were 2914 4s. 3d.; merchants' bills, 501 14s. 6d.; balance from last account, 1104. 17s. 8d. = 4521. 16s. 7d. Received on fifth call of 30s. per 1-166th share, 2494, showing undivided loss of 2034. 16s. 7d. It was resolved, that a call of 80s. per share be made payable immediately; and that the next account be held on the 29th of December next on the mine; the calls unpaid were only 3d. The following report, from Capt. Kersick and H. Rogers, were read:—The new shaft is now holed in the deep adit; it is 35 fmadeep and will be completed to day. We propose driving west on the north lode by four men, near the present end; on this lode we have a pitch working at 8s. in the 14. We also intend driving west from the shaft at the deep adit to ent the lodes south of the north lode. We shall also put four men to drive west from the shaft, 15 fms. above the deep adit, to cut these same lodes, and it will take us two menths to open on the lodes to get much returns from them.

TREWALLACK MINE.—A meeting of adventurers was held at the counting-house of the mine, on Monday, the 28th ult.,—J. Edwards, Eq. (of London) in the chair.—The CHARMENA expressed his regret, that the managing agent (Capt. John Lean) was precluded from attending the meeting, in consequence of arrangements previously made, and found impracticable to postpone; but his report would be shortly furnished for the information of the shareholders, and which (he felt convinced) would meet their entire satisfaction. The confidence which Capt. Lean had of the ultimate productiveness of the lode, progressed with the continued development of the mine: he (the chairman) fully confided in the opinion and abilities of their agent, and trusted that a few months only would elapse before their anticipations would be realised.—Mr. Henry Ellerk, the purser, presented the accounts, showing cost of tut

dventurers, 13l. 4s. 2d.

WHEAL DYKE.—At a meeting of adventurers, held on Friday week, at the mine, the following accounts were submitted and passed:—Balance due ourser at last account, 881. 9s. 4d.; costs, &c. (including one third of engine-shaqind works at Rose Consols), 3631. 2s. 8d.—By call, and arrears of calls, 2461. 10s.—leaving a balance now due parser, 2011. 2s. A call of 30s. per share was made payable immediately.

leaving a balance now due parser, 2011. 28. A call of 30s. per share was made-payable immediately.

WHEAL MEXICO.—A meeting of shareholders was held at Callington, on the 1st October, for the purpose of considering the necessity of suspending further operations in the mine.—Rev. E. T. MAy, in the chair.—After a fair and full discussion of the propriety of making another call, or the abandonment of the mine—the following resolutions were proposed, and unanimously adopted.—That the accounts having been examined, be allowed and passed.—That the further prosecution of the adventure, known as Wheal Mexico, be, and the same is hereby, stopped: and the purser is hereby authorised, to procure the sale of all the machinery, pumps, &c., on the mine, and to divide the proceeds thereof, after having paid all just demands on the Wheal Mexico Company.—That the purser, Mr. W. May, be indemnified, and held harmless against all actions at law, which may be brought against him by any person on account of the said mine or mining company.—That Mr. Huxham be appointed by the purser to sell the materials on the said mine.—In consequence of these resolutions, as soon as matters can be arranged, a sale of the materials will take place, and a dividend of the proceeds, after all claims have been liquidated, will be made to such shareholders as have paid the last call.

WHEAL CURTIS.—We are informed that the researches at this mine are pro-

such shareholders as have paid the last call.

WHEAL CURTIS.—We are informed that the researches at this mine are proceeding with spirit. In addition to the Curtis shaft, down 47 fins., a new shaft has been commenced, and is sunk upwards of 12 fms. A new lode has been discovered in the former at 20 fms. depth, called Wheal Dumpling lode, and which holds out indications of a superior character to the Wheal Curtis lode. We have been shown some specimens of the ore from the latter, which consists of a rich yellow sulphuret and peacock ore, largely disseminated through the matrix. The engine-house is proceeding rapidly, and the walls are now considerably above the surface. It will be seen, by our advertising columns, that the 15th is the last day for applications for shares; and we hear that 2700 out of the 3000 are already allotted, and the deposit on a considerable number paid. The parties appear to be proceeding with considerable spirit and confidence; and sanguine hopes are entertained, that it will prove a highly successful speculation.

[FROM CORRESPONDENTS.]

BIRCH TORR.—Since the annual meeting (published in the Mining Journal of 19th ult.) upwards of 900% worth of tin has been sold—one parcel realising 58%, per ton. In the 62 fm. level the end is very good, and also the backs, and it is believed that she will become the first tin mine in Devon. By the use of Brunton's frames a vast saving is effected. No shares are in the market, the holders fully anticipating a great price for them.

Kirkcudbrightshire Mining Company.—We are glad to learn, that the mines belonging to this company are looking well—one of the lodes is, at the present time, yielding 2 tons of lead per fathom. The sett, which is nearly two miles square, contains several lodes; and the operations, we are given to understand, are contemplated being of a more extended character—the mine fully warranting an increased outlay in developing its resources.

TRELAWNEX never looking better than at present, particularly going north nd there is every probability of the returns being increased, and her making

TREHANE, we are informed, is also looking very promising, having now about 15 tons of lead for sale; and they are sinking below the 20 fin. level, through a good course of ore.

15 tons of lead for sale; and they are sinking below the 20 nn. level, tarougu a good course of ore.

WHEAL BLENCOWE.—The following report has been received from a practical mining agent, who has inspected the mine:—In the western end of the 10 fm. level, the lode is about 18 in. wide, with very good work in it, and is worth about 4 cwts. of tin per 100 sacks—a sack being estimated to contain 12 gallons—which will pay very well for working. The lode in the eastern end at the same level, is from 9 to 10 ft. wide, this is worth about 3 cwts. of tin per 100 sacks, and is what we term a good lode, turning out plenty of work, being so very wide; above this lode there lies large workings, which were worked by the old men, which I take to be a very good sign. The backs are working on tribute at 10s. in the 1L, and they are now progressing with their ends so as to give more backs for tribute. In the 20 fm. level (which is the bottom at present), they are only driving the eastern end, which is now disordered by a floor of killas, and this proves of a common occurrence in this mine. A few fathoms from this end they have a very good lode, varying from 1½ to 2 ft. wide, and is worth from 16 to 18 cwts. of tin per 100 sacks; but they cannot work it until they have gone deeper; it is the best bunch of tin in the mine, and may be considered a good indication to see such a lode in the bottom of the mine, and at so shallow a level. Their adit is 11 fms. from the surface, so that the depth of the shaft is 31 fms. They expect to sample this month 4 tons, and there is every probability that the next 2 months' sampling will amount to 8 tous, with every prospect of continuance.

WHEAL MARY ANN (adjoining Trelawney) sold this week her first parcel of

WHEAL MARY ANN (adjoining Trelawney) sold this week her first parcel of res, consisting of 43 tons, at the high price of 211. 1s. per ton; and we are formed that the ends and stopes are looking very well indeed, and they are ow sinking below the 15 fm. level, on a good course of ore.

SALES OF LEAD ORES-TICKETING PAPERS.

-I am a considerable proprietor in one, and a small shareholder in se Sin,—I am a considerable proprietor in one, and a small shareholder in several, of the mines of this neighbourhood, which sell their ore by ticketings at Holywell. I feel greatly obliged by your exposure of their proceedings, as I have no doubt that the smelters practice all sorts of rascalities, as do most other people when they can, with impunity. An increased competition must be good for us miners, and I hope to see all the ore going to Llanelly, provided I get a better price for mine. As you seem to know everything about the way things are managed by the "triumvirate," will you please inform me how your exposure in the Journal of the 3d inst. can have affected prices three years back? and what your statement of bids and buyers proves beyond the fact, that one of the "triumvirate" has purchased so many more tons than the others. This proves nothing as to the price we get—for I believe the smelters all bid for different ores, according to their contents of lead and silver, and it is idle to suppose that all ores are of the same value; or why, when the "triumvirate" are agreeing the rate they will pay, do not they fix the minimum value to all, and not vary their bids, as I know they do, between a range of 5l. and 82l. per too? Those who get the latter price ought to be much obliged, indeed, if the obtainers of the first are satisfied; and, I must say, I never heard any grumbling at the sales, and I have been at the breakfast very often. I suppose we are but simple people, and you are right; but we have been always told, that Messrs. Hancock and Co., Messrs. Roskell and Co., and Messrs. Newton and Co., gave such prices as would not enable the others to get any profit,—and that Messrs. Mather and Co. only maintained their position, because they had the pull, to which you allude, by having secured the desired grid and the great profits, to which you allude, I wonder that Messrs. Hancock and veral, of the mines of this neighbourhood, which sell their ore by ticketings at

Roskell, and Eyton, all pretty sharp and "cute" fellows, do not return to the trade, as they readily might do, inasmuch as their smelting establishments are standing idle, and going to the worse for want of employment. Before Mesers. Newton and Co. and Mesers. Walter and Co. were smelters, I have often known ore unsaleable; but, since they came into the trade, I have known as much as 1800 tons sold at one breakfast, and, let the quantity be what it might, there was always a market with but few shillings per ton discrepancy; and, asail our sales are for bank notes that day mouth after the sale, I have often won-dered how the cash was provided, for there was never any difference, whether the quantity was great or small—the money was always there, and I must say I like this bank-note system botter than bills at three months; in fact, wo Welsh miners could not make our pays, if we had not the notes. I am looking forward to the expiration of the desilverizing patent, as a period when we shall obtain somewhat better prices for ores; but not much. Against this, though it is said, that Mesers. Mather will obtain an extension of seven years of their patent; I fancy all the present and late smelters will object to this; but Mr. Mather is very powerful, and has, doubtless, made a large fortune from the proceeds of this patent. Though Mr. Eyton constantly attends the sales of ores, he scarcely ever buys any by ticketing; what he does he manages better; he is a very extensive collier, and he barters coals for small parcels of ores with needy a tenturers. My ores for the last nine years have averaged only between I los, and 13L per ton. I shall feel greatly obliged it, by your exertions, hey should average the next nine years \$L\$ per ton more; but my ore contains only five ounces of silver, and they tell me that is worth nothing. I feel confident that all we miners are cheated, and wo look with confidence and hope to your exertions for better prices still.—Mines: Holywell, Oct. 7.

hope to your exertions for better prices still.—MINER: Holywell, Oct. 7.

[The authorship of this letter is evident, though we cannot so readily divine its object; but we give it insertion, as it may possibly prove the means of producing fomething more to the purpose. What we complain of is, the secrecy observed respecting the prices given for the cree, and the parties who purchase them. Why not, as with copper, furnish a copy of the Ticketing Paper for publication in the Journal? Such course would prevent much of the dissatisfaction now expressed by shareholders in the different lead mining companies, and tend materially to remedy any irregularity which may exist in present arrangements.]

SHARE JOBBING IN TAVISTOCK EXMOOR ELIZA

SHARE JOBBING IN TAVISTOCK—EXMOOR ELIZA.

Sin,—Your correspondent on the above subject, in the Mining Journal of last week, with singular acconsistency, after his attack on "anonymous slanderers," has, "assassin-like behind a screen," under the signature of "X. X.," directed his "envenomes" shefts" towards Exmoor Eliza Mine, which I believe they will injure los than the paper wasted by his "valueless instinations." It may be asked, shy I reply? My answer is, because I have been accused of being the author of the letter, bearing the signature of "Fair Play", "remarks?—A few words on the Exmoor been selected, to parry "Fair Play", "remarks?—A few words on the Exmoor bubble," as "X. X. X." terms it, are required in consequence. Early in December, 1845, a printed prospectus was placed into my hands, of a mine, called Wheal Maria (a name to which I objected), having a lode 6ft. wile; the bearer, on delivering the prospectus, also produced some fine specimens of gossan and copper, said to have been taken from the lode; I, with another, took all the shares not then applied for; but, being cautious, wished to have a competent judge to impact the mine. I sought the advice of Mr. J. H. Hitchins, who recommended and kindly allowed Capt. James Phillips to go with me. Capt. Phillips's report, dated I'fth December, 1856, has been published at length in the Mining Journal." an extract runs thus.—" The lode is large, and composed of gossan, with asones of copper ore in places, presenting indications rarely to be seen at admit, 1846, Gaptain B. Cooke also reported highly of the lode surface, varying in size from 20 to 30 ft. wide, for upwards of 100 fms. in length, producing some fine yellow and grey ore, in the most promising gossan I have seen for years." In short, the representations of the prospectus were much under the mark is, in, hasted of a lode 6ft. wide, there was either a lode, or junction of lodes, upwards of 26 ft. wide. The concern has been visited by many agn, at so experience, and a very high opinion of it has b SIR,—Your correspondent on the above subject, in the Mining Journal of last week, with singular accounts ency, after his attack on "anonymous slanderers,"

Sin,—Having for some years taken up your valuable paper, I have been much pleased of late with the manner in which you have exposed the unfair, unjust, and consequently dishonest, proceedings of certain individuals connected with the mining interests in this, and the adjoining county, who have learnt the "artful dodge" to perfection, and thereby have made for themselves pretty heavy purses, at the cost of their unsuspecting victims. When the great mass of ores was discovered in the justly-celebrated "South Caradon Mine," the setts of the surrounding lands, in every direction, for a considerable distance, were eagerly sought after, and generally obtained—(as to the value of many of them I shall offer no remarks)—and it was soon found that the greater part of them were taken by two parties, Mesers. Clymo and Co., and the Quakers, each party began to sell shares in this neighbourhood, as well as in London, and other places, to a very large extent, which very soon gave rise to several brokers in this town, who no doubt have a large amount of "artful dodgery" to answer for; but among this lot, there is one whose superior skill and cunning has left his "comrades" very far behind—being most intimately acquainted with all the shareholders and their circumstances in the mines held by the latter party, in order to accomplish the "artful" with the becoming grace and sanctity of the "class" to which he belongs, has established a "sattellite," of abilities not much inferior to his own, it London, with whom he has regular correspondence for the accomplishment of his nefarious practices with success and profit—this is done by his—(looking over the Cost. Books, he sees who are the most likely parties to sell in case a depression takes place in the price of shares),—offering a share at a great deal below the market price to some of the brokers here, which is soon communicated to the London adventurers by their brokers and agents, and the consequence is, that a mine that to-day is at a premium, to morrow, or in a few days, is at

remarks an early insertion. I would beg to call the attention of your numer readers, and especially of those who, with myself, have suffered from those u principled individuals, to suggest some mode, to secure our interests for, future—the only one that presents itself to my notice which meets the case, that no captain, and especially the purser shall be allowed to hold shares the nakes of which they are the agents—it certainly seems hard to exclude them; but it is evidently one means in the adventurers' power, to counteract the system practised in this district by unprincipled and sellish individuals. I he some one will enter more fully into this matter, and give it a thorough exposure Liskeard, Oct. 3.

F. G. S.

ACCIDENTS IN MINES—OPEN PIT WORKS. ACCIDENTS IN MINES—OPEN PIT WORKS.

Sire,—The melancholy accident of a purser falling down an old shall—and your remarks, that it was disgraceful to the agents of mines to allow these pit falls to be entirely open, when a trifling expense would render such accidents impossible—has touched a cord of recollection. Nothing ever gave me such a forcible impression of carlessness of miners, or some persons connected therewill, than a short run over Halkin Mountain, in Flintshire. I had often read the beautiful allegory of the "Vision of Mirza," and the Bridge of Life full of holes, but I never saw anything like the bridge in reality, until I saw Halkin Mountain. There the practice seems to be, dig a pit; and, when exhausted, remove what is valuable from the mouth, and leave the pit unfilled, uncradled, or unprotected—and, except some rubbish, no mark to tell where a hole may be expected, and in many cases the grass has grown over the rubbish and nearly concealed the trap, and many of them seem like the snare of a syren—they are to be found even in the centre of a pathway; and I saw one so near a cartroad, that a portion of the road had given way into it, and a traveller could not pass between a cart and it with safety; so little are these things thought of, that I saw one in front of a row of cottages, and not above 10 yards from the doors—the only protection being a few stakes driven in, about 18 inches apart, around which were a group of little children playing. I could not help wondering, if such things were considered necessary to make the young miner accustomed to the dangers that would surround his after life. Is there no law to oblige the proprietors of pits to fill or cradle them when out of use, and who should be compelled to fill such as these in the Halkin neighbourhood? If the miners themselves would notice these things, and never be satisfied while one lay open in their locality, it would not fail to engender habits of more carefulness in the young.—J. B. N.: Tabernacle-square, Oct. 7.

lay open in their locality, it would not fail to engender habits of more carefulness in the young.—J. B. N.: Tubernacie-square, Oct. 7.

MINE ACCIDENTS.

Cook's Kitchen Mine, Camborne.—On Monday last, a lad, named Webster, was killed by the bursting of the boiler of the stamps' engine.

Treaucen Mine.—J. Lawn was killed by a premature blast in 248 fin, level. Abernant Works, Aberdare.—J. Thomas was killed, two miners dreadfully injured, and three others slightly, by an explosion of fire damp at the No. 4 level. West Bromucich.—An explosion took place in one of the collieries of the late MT Horton, at Lyftleton Hall, by which three lives were lost, and several miners dreadfully injured. It appeared that Mr. John Baylis, the "doggy," or manager of the pit, had gone down, as usual, with the miners—24 men and boys. As was customary, he tried the workings with the safety lamp; and in the first side of the work for ascertain whether any fire-damp had been forced into it out of the first. In about 10 minutes after, the explosion took place. It is impossible to tell how it occurred; but the probability is, that it was through the carelessness or negligence of some of the colliers (who are always anxious to get to work as soon as the fire damp is dispersed), taking a lighted candle into the workings—the reckless individual, probably, paying the penalty of his imprudence with his life. Its effects were very afflicting. Seven of the unfortunate men, who were engaged dispersing the gases, were dreadfully burned, their bodies in some parts being literally roasted by the flame, and blackened by the clouds of vapour. Suspended in the skip, about 80 vards down the shaft, which is sunk to the depth of 600 yards, were J. Robinson, the engineer, and-W. Hadley, a workman, engaged in-gening the shaft when the explosion took place. The hot air, which reashed up the shaft when the explosion took place. The hot air, which reashed up the shaft with irresistible violence, carried the skip and the men for some distance upward, when it be

burning limbs.

Stella Colliery.—J. Veitch has died of injuries he received on the 25th July.

Milton Iron-Works.—I Mellon was caught by the shaft, and killed.

Rainton, near Durham.—A sad accident has happened in the Alexander pit, the property of the Marquis of Londonderry: it appears, that John Streaker (deputy overman) left the pit, perfectly safe, to all appearance, on Saturday afternoom—there being, as usual, two oil lamps burning, but which, it was considered, could not have caused the pit to fire; but, on the following morning, appearances at the down cast shaft intimated too truly that an explosion had taken place; and, on descending the pit, Richard Scott—an old man, aged ninety years, who had been left in charge of the furnace used for ventilating the shaft—was found lying beside the furnace quite dead; and, on reaching the stable, a dreadful sight presented itself—the whole of the horses, seventeen in number, had been destroyed.

shaft—was found lying beside the furnace quite dead; and, on reaching the stable, a dreadful sight presented itself—the whole of the horses, seventeen in number, had been destroyed.

LORD LONDONDERRY—PIT VILLAGES—Collating the opinious formed of Lord Londonderry among the denizens of Sunderland, with those expressed by the collier-workmen themselves, truth demands that a high character for kindness should be given him. Notwithstanding the soreness left in the minds of some from the failure of the great strike in 1844, the miners generally testify that the Marquis's liberality of character is preëminent among coalcowners. His encouragement of schools in the pit villages, especially deserves commendation. He is said to be expending 300, per year, at present, in this way. The degree of instruction afforded in these schools, at the cost of but 1d, per week to parents, and the qualifications of some of the teachers employed, by no means can be lightly estimated. — The villages built by the Marquis of Londonderry and other coal proprietors, are social assemblages of high interest to one accustomed to see the miserable misiance-nocks, such as are found in a harge part of the very town (Sunderland) from which I date this paper. The houses of the pit villages are built in rows, are generally uniform in size, and are covered with slate, thus presenting an attractive outside, save that the houses are lew, being limited to one story, or, at best, an arrow oeckloft above the day-room. In the older villages, one large room was the limit of convenience; but in the new villages two ground-floor rooms, and in numerous instances agoed space of gates, is allotted to each collier. Coals are also uniformly afforded for each family's consumption. The interior of these houses if manily very cheering to look upon. With here and there are exception, they are charmingly clean and neat; and the wives and children of the colliers individually of the confortable housing of his workmen, corresponding providence on the workman's habitation p

A New York paper informs us, that the Portsmouth and Roanoke Railroad was putup at auction yesterday, and bid off by the agent of the Board of Public Works, on behalf of the State, for \$60,000. There were only two bids besides those of the State; one by the town of Portsmouth, and one by a gentleman from the north desirous of purchasing for the iron rails.

Bristol. And Poole Harboure Rahwar Company.—We have before its a prospectus of a company formed for the construction of a line of railway from the large and pepulous commercial city of Bristol direct to Poole, in Dorsetshire, embraeing the populous towns and villages of Whitehurch, Pensfard, Clutton, Shepton Mallet, Bruton, Castle Cary, Wincanton, Stalbridge, Sturminster, and Wimborne Minster, to Poole Harbour. The value of a line of this description appears visible at a glance; extending rather upwards of 65 miles, in an almost direct line, across the counties of Dorset and Someriet, through the above fertile districts, containing an immense population; and, with less than an average of engineering difficulties to surmount in its construction, this railway. If completed, will evidently possess capabilities, in a commercial point of view, scarcely to be equalled. Bristol, with its large mercantile population, its proximity to the greation and coal districts of South Wales, and uninterrupted railway intercourse with the large manufacturing districts of the midland counties and the north of England—and Poole, with its noble harbour and extensive shipping trade, so peculiarly situated for direct intercourse with our southern coast, the Channel Islands, and the whole southern ports of Europe, will be brought within a railway distance, for the transit of heavy merchandise and minerals of about four hours, which now, by ship, the only means of transport, take on an average 10 days; and to accomplish which, there are now employed, in the port of Poole, for the voyage round the Land's End, about 400 vessels, averaging 130 tons, with six men to each, at about 60l, per menth, and showing a loss of about 10l, for days detained, or 40,000l, per annum, which this line would entirely save; in addition to which may be mentioned loss of life, insurance, &c., amounting every year to a large sum. A number of these vessels are employed in carrying the famous Plaistaof clay from near Poole, round the coast to Bristol, for the Pott

as any railway yet constructed. The capital is to be 1,000,000l., in 50,000 shares, of 20l. each, with a deposit of 2l. 2s. per share.

THE CALEDONIAN RAILWAY.—We have great pleasure in noticing the rapid and satisfactory progress which this national and gigantic undertaking is making along the line. At the deep cutting near Ecclefechan, and the heavy forcing over the Mein, considerable progress has been made. Between Ecclefechan and Lockerty the railway crosses the mail-road twice, and the works appear well advanced. The bridge across the Water-of-Milk is being built. This bridge, it is said, will be the principal one on the whole line. At Lockerby great progress has been made, and in some places the permanent rails are laid. The bridge above the town, for currying the Dryffer road over the line, is nearly completed. Freparations for the Lockerby station have commenced. Betwist Lockerby and Hangingshaw the railway crosses the road twice, a deviation in which has been made, and a bridge is well up. At Cognie the bridge plers are above water-mark. At Mofait, where a number of the navies reside, no disturbances have taken place. At Greskin there is a very heavy cutting, upwards of 00 ft. deep. Three tiers of men are employed on it. A most substantial stone wall is in progress of ercover this to Beatock, no peculiarity is observable, only that rails have been laid on a greater part of the line. Near Beatock some extensive works are erected for the manufacture of waggons, wheelbarrows, &c. The station for Mofat and the surrounding district will be created betwitt Beatock Inn and Cralgiciands Gate—about a mile-and-a-half from Mofat; and there can be little doubt, that when the line is opened this length, the visitors to this favourite watering-place will be greatly increased, and be a source of no small income to the railway company, from the passengers arriving there from the north adouth. The principal drawback to Mofat is the difficulty of access to its pleasune quarters. In the direction of the Avon, a great num

Current Prices of Stocks, Shares, & Metals.

MINES .- The mining share market continues in the same depressed state, to MINES.—The mining share market continues in the same depressed state, to which we referred last week. The transactions in shares have been very few, and these have not realised better prices. The few shares which have changed hands are—Treviskey and Barrier, Trelawney, West Wheal Jewel, Ting Tang, Callington, Blencowe, Louisa, Wheal Franco, Kirkcudbright, South Trelawney, Trehame, Wheal Concord, Lamberooe, Andrew and Nangiles, and Stray Park. In Bolanos and Real del Monte a great amount of business has been done since the arrival of the packet, and the shares have gone up in the former from the nominal quotation of 4\frac{3}{4}\$ to 6\frac{1}{4}\$.

RAILWAYS.—Great depression has marked the railway share market during the week; and, although there has been an increase in the number of transactions, prices generally have given way, and the shares of the greater number of schemes are lower than they were last week. One principal reason assigned for this is, the number of holders of the middle classes, who, not being able to meet the calls now being made on those lines, which are being constructed, are obliged to force their shares on the market: we refer to the list.

METTINGS.—Sheffield, Rotherham, and Goole: first meeting; it was made

meet the calls now being made on those lines, which are being constructed, are obliged to force their shares on the market; we refer to the list.

MEFTINGS.—Sheffield, Rotherham, and Goole: first meeting; it was made special to authorise leasing a portion of the line to the Manchester and Leeds Company; agreed to, and arrangements with the latter and the South Yorkshire Company confirmed.—Wurwick and Worcester: under Dissolution Act, not sufficient shares present, and adjourned to Monday.—Larne, Beljust, and Ballymena: under dissolution; agreed to dissolve, and Its per share to be returned.—Taff Vale Railway: to authorise directors to raise remainder of the capital, 40,000h, at 4 per cent., agreed to.—Chester and Birkenhead: half-yearly meeting, which was adjourned for a week.—Newbarket and Chesterford: to consider the question of a more direct communication with London; and it was resolved, that the line proposed, from Thetford to Newmarket, was the best calculated to promote the desired object, and the meeting pledged themselves to support it by every means in their power.—South Eastern and County of Kent: on Saturday last, at Seven Oaks; to consider the recent conduct of the South-Eastern Company; no person attended officially from the latter company, and it was resolved, that the line proposed by the Birghton Company, through Bromley and Seven Oaks to Tonbridge, was most advantageous for the interests of the public and the county in particular.—Dundee and Arbroath: a special meeting, to consider a proposal for augmenting the capital by 50,000L, in new shares of 25L each. The works to be executed are, aftering the line to the narrow gauge, with new carriages, waggons, &c., to meet the expected increased traffic on the opening of the Perth and Aberdeen line, and the formation of two branches; agreed to.—Ambergate, Nottingham, and Boston: an adjourned special meeting, for considering affairs, and appointing officers; the deposits and interest, and 5000 received of the Midland Company, amounted to 171,381L; the posits and interest, and 5000L received of the Midland Company, amounted to 171,381L; the disbursements had been 24,202L: leaving a balance of 147,179L, which, with 53,968L expected from the Grand Tuion Company, made the present assets 201,147L; 120,000L of this was invested in 3½ per Cent. Stock.

LEEDS, FRIDAY.—The share market continues to decline, and the prices of all stock LEEDS, FRIDAT.—The share market continues to decline, and the prices of all stock have fallen during the week, in most instances to a considerable extent; to day everything is again worse, excepting new East Lancashires, which, singularly enough, are nearly as high as the old shares; and Liverpool, Ormskirk, and Prestons, which have slightly recovered from the ruinous depression of the last few days; North British, too, are firm, at the reduced quotations. West-Riddig Unions, Manchester and Leeds Extensions, Eastern Counties York Extensions, Matlocks, North Staffords, North Westerns, and Leeds and Thirsks, are all lower than yesterday, and present appearance are by nonreass such as to justify us for expecting an early improvement in prices.

THE NEW STOCK AND SHAME EXCHANGE, AND HALL OF COMMERCE.—We have taken an opportunity of visiting this new building in Old Broad-street, and find it replete with all the convenience necessary to a market of such a description. As to that gigantic effort of individual enterprise (namely, the Hall of Commerce), it is the intention of Mr. Moxhay to raise the annual subscription to about three guineas, which is a mere bagatelle, considering the great advantages offered by it to men of business, both in town and country. Those vociferous folks, yeleped "bulls and bears," having now betaken themselves to the new Exchange, leaves the Hall of Commerce a quiet resort for the reading and mercantile portion of the community.

THAMES TUNNEL COMPANY.

The number of passengers who passed through the Tunnel in the week ending Oct. 3, was 16,366; amount of import, 4689 3s. 104.

anded aved ave BAILWAY SHARE LIST.	67	
thereby formed for the construction line of rail-	Closing pr.	Ct sing pr.
t word our commercial city of Bristol direct to Poole,	ms spend s	di 1141 V
Amber, Norringham, Boston, and Erewash Juneston 28	undan or	Dometral
Briminghau and Oxford Junction 20/ shares 100 Bristol and Exeter 100/ shares 2 Bristol and Exeter 100/ shares 2	129	127
Bristol and Exeter—100/ shares	Dep.84 Tida	10 82 La
	213	201
Bristof and Goucester—See per samus Caledonian – 50¢ per share Caledonian – 50¢ per share Chester and Holyhead – 50¢ shares  27 Direct Northera – 50¢ shares  28 Eastern Countles – 28¢ shares	21	234
Eastern Counties 25/ shares 12. 1	00 21	211
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Creat North of Europe 100/ shares	230	233
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Hull and Selby 50f shares	m1051	.1:106 mar
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London and Greenwich Av 121 155 40  London and Greenwich Av 121 156 40  London and South Western Av 41i 16s 10d  Lundon and York—50f shares 22	.9006940 1	1117.16712.8V
	f) dis	indicate of the
Londonderry and Coleraine—50/ shares	54	15178
Lynn and Dereham—25/ shares  Manchester and Leeds +100/ shares  82	12‡	1 19 dw
Manchester and Birmingham—40t shares	107 6 75	74
Manchester and Birmingham 40/shares 40 Manchester Buxton, and Matchester 207 shares 42 Manchester and Sonthampton 2 Michand 5 Ditto Birmingham and Derby Stock	1 pm.	# pm.
Midland Stock	136	130
Newcastle and Berwick —25/ shares	261	251
Newcastle and Berwick -25t shares 15 Newark, Sheffield, and Boston-25t shares 2 Norfolk Stock 100t	133	131
	324	324
North Biffusit	72	70
North Staffordshire—207 shares	21 pm.	14 pm.
Portsmouth Direct -50/ shares	7 n 4 k	4 pm.
Preston and Wyre—50/ shares   50   Richmond—20/ shares   5   5   Scottish Central—25/ shares   124	32	32
Scottish Central	18# 1 dis.	101
Scottish Midland—25f shares   128	CATHWEST A	O. BREE
South Devon—50/ shares	31	33
South Eastern and Dover Av. 33/ 2s 4d	39 1 dis.	371 11 dia.
South Wales—50t shares	Town 41 and	1,ocksirily
Vale of Neath 2 Waterford and Kilkenny 14	5 dis.	6
Welsh Midland 24	24 pm.	I pm.
Wilts Somerset, and Weymonth -50/ shares	44	44
York and Carilsia 27 York and North Midland—50! shares 50	2 dis.	94
Ditto Selby-50l shares	79	81
Bonlogne and Awlens—20/ shares	142	141
Bordeaux, and Toulouse and Cette (Mackenzie)—20/ shares 2 Bordeaux, Toulouse, and Cette (Espaleto)—20/, shares 2 Central of Spain—20/, shares 2	dis.	14 dis.
Contrata of Shariff and salaron	11 dis.	20024W
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Great Western Bengal	In-aguestin	13
Jamaica and South Midland Junction—20/ shares 6 Louvaing a la Sambre—20/ shares	dís.	1
Lyons and Avignon-201 shares 5	42	postrante
Namur and Liege 201 slaves	11	14
Orleans and Vierzon-20/ shares	14	144
Paris and Lyons Constituted	OTODATO DE L'ANDE	8
Paris and Orleans—20l shares         20           Paris and Rouen—20l shares         20	481 361	48 361
Rouen and Havre—20/ shares	28	28
Sambre and Meuse—201 shares	8 9	31
West Flanders	27	dynog ta

## CHITCH BRANCHER OFFICER VANALAR, & SELECT

From these returns, it will be seen, that the amount of traffic for the last week, on nearly 1800 miles of railway, was 167,717L, thus accounted for :—94,641L for the conveyance of passengers only, 39,27tL for the carriage of goods, and a remainder of 33,802. for passengers and goods together, not respectively apportioned; being an increase over the corresponding week of last year of 37,330L

Name of Railway.	Lgth.	Present ac-	Last	Traffic Ret	urns.
the strong and serious bank	Rway.	tual cost.	Div.	1846	1845
Arbroath and Forfar	415	£142,900	3p.c.	£295 2 74	£178
Chester and Birkenhead	15	658,293	.24	811 15 5	683
Dublin and Drogheda	32	699,975	31	805 1 8	783
Dublin and Kingstown	6	349,736	9	1239 17 5	1263
Dundee and Arbroath	170	153,598	6	415 17 73	319
Durham and Sunderland	1 19	302,118	2	658 6 0	724
E. Counties & North. & East	1451	4,746,113	5.	10034 15 11	6370
Eastern Union	I letter	of the secondary	100	429 11 7	108.40
Edinburgh and Glasgow	46	1,212,136	6	4206 12 7	2894
Glasgow, Paisley, and Ayr	51	1,301,381	771100	2462 4 7	1952
Glasgow, Paisley, & Greenock	23	829,427	12/1/1	1057 13 3	921
Gravesend and Hochester	7.	82,828	-	40.	197
Great Western	2454	8,885,605	8	20485 12 1	19820
Hartlepgol		Monage as S	CTSTO1	1023 11 4	1143
London and North Western	4403	16,827,526	10	43953 2 7	21451
London and Blackwall	1400	1,078,761	140	1076 13 4	1006
London & Brighton & South Coast		4,670,721	6	10697 10 3	6304
London and South-Western	100 :	3,648,547	101	7747 7 114	7642
Manchester & Leeds	61	4,636,556	8 .	7441 7 9	7307
Manchester, Bolton, & Bury	10	842,725	5	110 4 110 1 - 11	1032
Midland Company	328	8,831,195	7	21226 2 7	18771
Newcastle and Carlisle	65	1,137,385	5	2209 3 1	1732
Norfolk	59	985,080	. S	1601 1 6	1401
North British	584	1,459,957	0.00	1347 0 9	7
Preston and Wyre	22	432,014	24	951 17 7	594
Sheffield and Manchester	411	1,633,331	5	1970 5 10	1209
South Devon	15	778,976	112 11	447 8 3	10
South-Eastern and Dover	1371	6,613,535	31	11052 10 1	3895
Taff Vale	30	690,229	5	1385 14 5	1103
Ulster	25	358,353	5	744 7 0	592
York and North Midlend	84	2,334,599	100	7647 5 11	5839
Northern of France	260	tine southly.	AUES	10174 0 0	eng (Sy
Orleans and Bordeaux	72	599,040	400	3115 0 0	2002
Paris and Orleans	82	2,082,916	91	8366 0 0	8113
Paris and Rouen	85	1,995,306	8 11	8170 0 0	7320
TOT BUT DUE OUTH HEROTELLE LINE	Litral B	meter Year Transfer			400

LITERARY NOTICE.

Railway Register, for October. Edited by Hydr Clarke, Esq. John Weale, High Holborn.

The number of this periodical for the present month is more than usually pictorial and editying; it opens with a paper on the policy of railway companies, and the effects of the late unusually large investments on the monied interest of the canutry—in which the very absurd and futtle attempts of some journalists to define the amount of surplus capital, the surplus earnings, and real wealth of a nation, are very cleverly refuted; and the author shows, that the means for executing the railway system are derived from the more efficient exertion of the labouring classes employed in rade lubour, and which takes place under the stimulus of increased wages, obtained from the surplus production of the country. That the means of the country for railway construction will be equally efficient in famine as in abundance, as the stimulus to be given to utilise labour is still restricted to the amount accessary to turn the scale of the pauperism of the agricultural classes. A list of the Italian lines of railway follows. We have then descriptions of Greenhow's Geometrical Railway—University's Resilient Railway Tube—Swinburno's Atmospheric Railway—all with number of sailway all with the Portfolio, conspirition in the manufactions, short-ham, and Brighton Railway.

Frience Locomotries Suugglers,—We are informed, upon credible authorities.

French Locomorive Smugglers.—We are informed, upon credible authority, that there exists some commotion in the locomotive departments of the metropolitan lines, owing to some of the French railway companies having tempted away many of their most experienced engine-drivers. The provincial lines are suffering from the same cause, so that good engine-men are becoming scarce.—Railway Chronicle.

The Museum of Geology in Piccadulax.—After a long and unexplained delay, a number of workings are now actively employed in excavating for the foundation of the building of the Museum of Economic Geology in Piccadilly

1

Shares   Company   Paid   Price   Shares   Company   Paid   Price   1224 Alfred Criss/S   45   45   426   5040   Wh. Hope   1   42   1233 Ansirew and Sangties   25   256   5040   Wh. Hope   1   42   1230	Company Paid Price   Shares   Company   Paid   Price   Iried Coincid   48   48   266   South Wh. Hole   78   24   266   South Wh. Maria   27   24   24   26   26   26   26   26   26	BRITISH MINKS IN adl lie	BRITISH MINES continued.
1000   Sharistown   1	100   200	Shares. Company. Paid. Price.	Shares. Company Paid Price.
1000   Sattrictown   14	256 South Wheat Ross   14   12   12   12   12   12   12   12	925 Amilyon had Mandilas 954: 92	TUNU BOULD W. MATIA ZZ., ZZ
100 Botalines		1000 Barristown ( con tayan) 4 co 1 30	256 South Wheal Ross 112.
100 Botalines		128 Besure Lead Mine 14 30	256 St. Austell Consols 7 15
100 Botalines		8000 Blaenavon	1000 Stray Park
128 Badd alt. Consols	100   100	206 Bodwanniek 2012 3 Art - 100 Bothlinek 2012	9600 Temar Consols 3 5
128 Badd alt. Consols	100   100	120 Brewer	256 Ting Tang 89 14
128 Budhick Consols	adniek Consels 524 49 1024 Trolamyey Consels 11 11 11 11 11 12 12 55 Trenov Consels 12 11 11 11 11 12 12 15 Trenov Consels 1 11 12 12 15 Trenov Consels 1 11 10 11 11 11 11 11 11 11 11 11 11 1	Ditto ditto, scrip.	
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290 Caradon Consols	Transprint   1	1000 Callington 19 21	256 Trenow Consols 110
188   Carandon Wir. Hoopqy   13	10   10   10   10   10   10   10   10	256 Caradon Copper Mine 91., 1	120 Truthellen
188   Carandon Wir. Hoopqy   13	10   10   10   10   10   10   10   10	256 Caradon Mines 15 24	120 Treviskey and Barrier 61 120
1990 Combinariii	Second	956 Character Will Harris 10	128 Trewellard 13 254
1990 Combinariii	Second	1000 Carn Brea	4000 United Hills 5 . 2
128   Contour   128   128   West Cargoli   128   West Cargoli   128   Contour   1	138   West Cargot   128   West Consols   10   25	166 Cleveland 9 61	256 Wellington Mines 15 50
128   Contour   128   128   West Cargoli   128   West Cargoli   128   Contour   1	138   West Cargot   128   West Consols   10   25	1000 Combiawn	256 West Caradon 20 260
1986 Cooks   Kitchen	Section   Sect	130 Commore	140 Mest Cargott 6 18
1900 Copper Botton	Speech   1	128 Condurrow	- West Kekewich Consols 33
1024 Costleon	Select	1000 Copper Bottom 1 A	
128   128   129   200   236   West United Hills   22   240	reeg Braws   120   200   226 West United Hills   22   3   3   3   3   3   4   4   5   5   5   5   5   5   5   5	1024 Cospeen 44., 30	200 West Seton 44
100   Cabert Mina   12   30   256   West Wheal Jewel   11   1024 Devon & Courting Con.   4   5   2865   West Wheal Jewel   11   1024 Devon & Courting Con.   4   5   2866   West Wh. Maria   1   1026 Dintrode   2   6   2866   West Wh. Maria   1   1080 Dintrode   2   6   2866   West Wh. Maria   1   1080 Dintrode   2   6   2866   West Wheal Shepherd   1   128   East Pool   5   226   West Wheal Tolgus   211   1   1   1   1   1   1   1   1	abert Alusa	- 128 Creek Braws 120 200	256 West United Hills 22 3
1024   Devon Countrey Con.   4   5   2500 West Wh. Marya.   6   186 Dolcoath   7   256 West Wheal Shephen!   186 Dolcoath   7   256 West Wheal Shephen!   186 Dolcoath   7   256 West Wheal Tolgus   213   1   1   1   1   1   1   1   1   1	Strong Courting Con. 4   5   2500 West Wh. Marshall   2   2   2   5   2500 West Wh. Alkehell   2   2   5   2   2   5   2   2   5   2   2	- 500 Cubert Mine	256 West Wh. Friendship 74 5
Durhamit County Const 48   9   205   West Whent Toigus   214   128   East Pool   5   20   240   West Whent Treasury   144   128   East Fool   5   20   240   Westelhake   2   241   282   242   242   242   243   243   244   244   244   244   244   245	######################################	1094 Dayon & Courtney Con A	1 2500 West Wh. Mark 2 2
Durhamit County Const 48   9   205   West Whent Toigus   214   128   East Pool   5   20   240   West Whent Treasury   144   128   East Fool   5   20   240   Westelhake   2   241   282   242   242   242   243   243   244   244   244   244   244   245	######################################	1000 Dhurode 2 6	2560 West Wh. Mitchell + 2
128 East Fool   128	185 Fool   185 Fool   20   210 Westeylake   3   3   3   3   3   3   3   3   3	19000 Durham County Coal 45 9	256 West Wheal Tolgus 211 101
128 East Relistian	sat Relistian	128 East Pool	256 West Wheal Treasury 141 8
September   Sept	158 Wheal Albert   1	128 East Relistian 10	6000 Wicklow Copper 5 163
256 East Wheal Rore   1	ust Wheal Ritty         ‡         ‡         2         256 Wheal Aller         ‡         ‡         4         2         368 Wheal Aller         ‡         ‡         4         368 Wheal Anderton         10½         11½         ust Wheal Seton         ½         12         128 Wheal Arrose         2         6         owey Consols         —         40         256 Wheal Bleucowe         —         15         usanisod Iron Co         10         10         256 Wheal Bleucowe         —         15         ust Aller         —         15         ust Aller         —         15         ust Consols         —         15         wheal Encowe         —         15         ust Consols         —         15         wheal Cloreland         7         65         ust Consols         —         16         00         12         256 Wheal Entersena         4         8         20         ust Consols         —         12         256 Wheal Entersena         4         8         20         ust Consols         3         20         00         40         384 Wheal Horsteen Aller         4         8         264 Wheal Entersena         4         8         24         264 Wheal Howel Cannor         2         22         20         weat Cansols         3         22	East Wheal Albert 1 3	250 Wheat Albert 10 8
256   East Wheal Kity   1	six Wheal Kitty	94 East Wheal Crofty 200	128 Wheal Acland 13 . 2
1000 Galyanisod Hop Co.   10   10   256 Wheal Blan Consols   4   256 Wheal Cleiford   1   156 Wheal Clifford   1   156 Wheal Fortesena   4   6   6   158 Wheal Fortesena   4   6   158 Wheal Harrier   4   5   158 Wheal Harrier   5   158 Wheal Marrier   5   1   158 Wheal Marrier   5   1   1   158 Wheal Marrier   5   1   1   158 Wheal Marry Calabook   4   158 Wheal Marry Consols   3   2   2   2   2   2   2   2   2   2	Maning Co. for Irel.	256 East Wheal Kitty + +	368 Wheal Anderton 102. 111
1000 Galyanisod Hop Co.   10   10   256 Wheal Blan Consols   4   256 Wheal Cleiford   1   156 Wheal Clifford   1   156 Wheal Fortesena   4   6   6   158 Wheal Fortesena   4   6   158 Wheal Harrier   4   5   158 Wheal Harrier   5   158 Wheal Marrier   5   1   158 Wheal Marrier   5   1   1   158 Wheal Marrier   5   1   1   158 Wheal Marry Calabook   4   158 Wheal Marry Consols   3   2   2   2   2   2   2   2   2   2	Maning Co. for Irel.	128 East Wheal Rose 501100	128 Wheal Ann 50
23	ambier & St. Aubyn 21 256 Wheal Forderick 3 20 eat Consols (000 400 384 Wheal Franco 25 39 eat Consols (000 400 384 Wheal Franco 25 39 eat Calestick Moors 6 12 256 Wheal Franco 25 39 eat Mitchel Consols 2 128 Wheal Harlet 45 48 48 eat Resengia Moor 1 4 8 24 8 Wheal Harlet 45 48 48 48 48 48 48 48 48 48 48 48 48 48	512 Fowey Consols 40	256 Wheal Bleucowe 15
23	ambier & St. Aubyn 21 256 Wheal Forderick 3 20 eat Consols (000 400 384 Wheal Franco 25 39 eat Consols (000 400 384 Wheal Franco 25 39 eat Calestick Moors 6 12 256 Wheal Franco 25 39 eat Mitchel Consols 2 128 Wheal Harlet 45 48 48 eat Resengia Moor 1 4 8 24 8 Wheal Harlet 45 48 48 48 48 48 48 48 48 48 48 48 48 48	10000 Garyanised from Co 10 10	256 Wheal Cleveland 7 64
23	ambier & St. Aubyn 21 256 Wheal Forderick 3 20 eat Consols (000 400 384 Wheal Franco 25 39 eat Consols (000 400 384 Wheal Franco 25 39 eat Calestick Moors 6 12 256 Wheal Franco 25 39 eat Mitchel Consols 2 128 Wheal Harlet 45 48 48 eat Resengia Moor 1 4 8 24 8 Wheal Harlet 45 48 48 48 48 48 48 48 48 48 48 48 48 48	1000 Godolphin	136 Wheal Clifford 190
256 Great Resugga Moor.   1	cart Mitcher Consols   14   8   248 Wheat Helpe (Zennor)   23   25   Wirk.Rough TorrCon   1   20   149 Wheat Helpe (Zennor)   23   25   Wirk.Rough TorrCon   1   20   149 Wheat Helpe (Zennor)   23   25   Wirk.Rough TorrCon   1   20   149 Wheat Helpe (Zennor)   23   25   Wheat Hope (Zennor)   23   25   Wheat Hope (Zennor)   23   25   Wheat Map   25   25   25   Wheat Maria   11   1   5   Wirk.Rough TorrCon   2   25   25   Wheat Maria   1   142   Wirk.Rough TorrCon   3   2   4000 Wheat Maria   1   420   Wirk.Rough TorrCon   2   260 Wheat Mary Ann   5   85   Wirk.Rough TorrCon   2   260 Wheat Mary Ann   5   85   Wirk.Rough TorrCon   1   2   260 Wheat Mary Calstock)   4   13   Wirk.Rough TorrCon   1   2   25   Wirk.Rough Mary Ann   1   2   2   Wheat Mary Cansols   3   2   2   Wheat Mary Lanivet   2   2   3   Wheat Providence   3   4   Wheat Rose   4   2   3   Wirk.Rough Mary Ann   2   3   Wirk.Rough Mary Ann   2   3   Wirk.Rough Mary Ann   4   Wirk.Rough Mary Ann   4   Wirk.Rough Mary Ann   4   Wirk.Rough Mary Ann   4   Wirk.R		256 Wheal Forteseud 4 8
256 Great Resugga Moor.   1	cart Mitcher Consols   14   8   248 Wheat Helpe (Zennor)   23   25   Wirk.Rough TorrCon   1   20   149 Wheat Helpe (Zennor)   23   25   Wirk.Rough TorrCon   1   20   149 Wheat Helpe (Zennor)   23   25   Wirk.Rough TorrCon   1   20   149 Wheat Helpe (Zennor)   23   25   Wheat Hope (Zennor)   23   25   Wheat Hope (Zennor)   23   25   Wheat Map   25   25   25   Wheat Maria   11   1   5   Wirk.Rough TorrCon   2   25   25   Wheat Maria   1   142   Wirk.Rough TorrCon   3   2   4000 Wheat Maria   1   420   Wirk.Rough TorrCon   2   260 Wheat Mary Ann   5   85   Wirk.Rough TorrCon   2   260 Wheat Mary Ann   5   85   Wirk.Rough TorrCon   1   2   260 Wheat Mary Calstock)   4   13   Wirk.Rough TorrCon   1   2   25   Wirk.Rough Mary Ann   1   2   2   Wheat Mary Cansols   3   2   2   Wheat Mary Lanivet   2   2   3   Wheat Providence   3   4   Wheat Rose   4   2   3   Wirk.Rough Mary Ann   2   3   Wirk.Rough Mary Ann   2   3   Wirk.Rough Mary Ann   4   Wirk.Rough Mary Ann   4   Wirk.Rough Mary Ann   4   Wirk.Rough Mary Ann   4   Wirk.R	100 Great Consols	256 Wheal Frederick 3 20
256 Great Resugga Moor.   1	cart Mitcher Consols   14   8   248 Wheat Helpe (Zennor)   23   25   Wirk.Rough TorrCon   1   20   149 Wheat Helpe (Zennor)   23   25   Wirk.Rough TorrCon   1   20   149 Wheat Helpe (Zennor)   23   25   Wirk.Rough TorrCon   1   20   149 Wheat Helpe (Zennor)   23   25   Wheat Hope (Zennor)   23   25   Wheat Hope (Zennor)   23   25   Wheat Map   25   25   25   Wheat Maria   11   1   5   Wirk.Rough TorrCon   2   25   25   Wheat Maria   1   142   Wirk.Rough TorrCon   3   2   4000 Wheat Maria   1   420   Wirk.Rough TorrCon   2   260 Wheat Mary Ann   5   85   Wirk.Rough TorrCon   2   260 Wheat Mary Ann   5   85   Wirk.Rough TorrCon   1   2   260 Wheat Mary Calstock)   4   13   Wirk.Rough TorrCon   1   2   25   Wirk.Rough Mary Ann   1   2   2   Wheat Mary Cansols   3   2   2   Wheat Mary Lanivet   2   2   3   Wheat Providence   3   4   Wheat Rose   4   2   3   Wirk.Rough Mary Ann   2   3   Wirk.Rough Mary Ann   2   3   Wirk.Rough Mary Ann   4   Wirk.Rough Mary Ann   4   Wirk.Rough Mary Ann   4   Wirk.Rough Mary Ann   4   Wirk.R	256 Great Calestick Moors 61. 12	256 Wheal Gill 191., 22
512 Gri. Wh. Monga Torr. Con. 1	Wh. Hough TorrCon.   20	200 Great Resugga Moor 17. 8	2048 Wheal Holwell 14 15
1000   Harrowbarrow Consols   2   4   296   Wheal Lenisa   5   4   104   Wheal Maria   1   427   4000   Wheal Maria   1   427   4000   Wheal Mary Ann   5   85   85   85   85   85   85   8		512 Gt. Wh.Rough TorrCon. 1 20	169 Wheal Hope (Zennor) 23 25
1000   Harrowbarrow Consols   2   4   296   Wheal Lenisa   5   4   104   Wheal Maria   1   427   4000   Wheal Maria   1   427   4000   Wheal Mary Ann   5   85   85   85   85   85   85   8		1000 Gunnis Lake 14 3	256 Wheal Jane 6 40
1000   Introvocarrow Consols   2   2   4000   Wheal Martha Consols   4   6000   Heightston Down Con   1   2   256   Wheal Martha Consols   4   256   Heroafsols   1   10   1024   Wheal Mary Ann   5   85   825   Heroafsols   1   10   1024   Wheal Mary Cansols   30   22   1   1000   Hillen   12   1   256   Wheal Mary Consols   30   22   1   1000   Hillen   1   2   1   256   Wheal Mary Consols   30   22   1   1000   Holinbush   18   9   256   Wheal Mary Consols   30   22   256   Wheal Mary Lannivet   2   2   2   2   2   2   2   2   2	Wronourrow Consols   2   4094   Wheal Maria   1   4204		
256   Wheal Mary Ann.   5   82   256   Wheal Mary Ann.   5   83   256   Wheal Mary Calstock   4   1   1   1   1   1   1   1   1   1	Agriston Down.Con.   2   266   Wheal Mary Calstock)   4   1   1   1   1   1   1   1   1   1	1000 Harrowbarrow Consols 2 4	1024 Wheal Maria
1000   1000	Y Tor   1	6000 Helenston Down Con 1 9	256 Wheal Mary Ann 5 85
1000   1000	Y Tor   1	256 Herodsfoot	1024 Wheal Mary (Calstock) 41 13
1000   1000	Y Tor   1	— Hobb's Hill 4 5	128 Wheal Metha 14 85
182	We will be a series of the s	20 1vy 101 1 1 1 2 2 2	256 Wheal Mary Pentuan 1 2
2048 Lanivet Consols 2 8 128 Wheat Prospect 4 9 200 Larkholes 1 3 128 Wheat Prospect 3 4 44 160 Levant 5 90 128 Wheat Reeth 1 6 1009 Lewis 15 3 128 Wheat Reeth 1 6 6 1009 Lewis 6 10 226 Wheat Reeth 1 2 2 1280 Llancynfelin 6 10 226 Wheat Satusbury 13 2 128 Llancynfelin 3 3 5 12 Wheat Sarah 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	nivet Consols. 2 8 128 Wheal Prospect 4 9  xant	827 Kirkeudbrightshire 24 5	256 Wheal Norris 9 3
4090 Marko Valley     10     31     99 Wheal Seton     150     835       5000 Mendip Hills     12     12     126 Wheat Spearne     11     83       5000 Mining Co. of Ireland     7     12     256 Wheat Sixcrs     255     29       200 Xanterrow Comools     14½     10     128 Wheat St. Cleer     21     12       128 Norti Fowey Consols     2     2     260 Wheat Trelawney     72     16       128 Norti Fowey Consols     15     20     256 Wheat Trevenna     32	arke Valley         16         34         99         Wheal Seton         150         835           maing Dillis         14         14         124         Wheal Spearne         14         88           ming Co. of Ireland         7         12         226         Wheal Steres         255         29           meterrow Consols         14         10         128         Wheast St. Cleev         21         15           w East Growndale         2         2         260         Wheal Treatswape         72         115           writi Fowel         1         51         226         89         Mal Trevenna         32         4           with Raskear         19         400         128         Wheal Trevenna         12         10           with Wh. Leisure         12         40         128         Wheal Vietoria         2         2           with Wh. Leisure         12         6         122         Wheal Water         4         34           with Wh. Leisure         12         6         12         24         4         34         4         34           with Wh. Leisure         12         6         10         264         10         22	2048 Lanivet Consols 2 8	128 Wheal Prospect 4 9
4090 Marko Valley     10     31     99 Wheal Seton     150     835       5000 Mendip Hills     12     12     126 Wheat Spearne     11     83       5000 Mining Co. of Ireland     7     12     256 Wheat Sixcrs     255     29       200 Xanterrow Comools     14½     10     128 Wheat St. Cleer     21     12       128 Norti Fowey Consols     2     2     260 Wheat Trelawney     72     16       128 Norti Fowey Consols     15     20     256 Wheat Trevenna     32	arke Valley         16         34         99         Wheal Seton         150         835           maing Dillis         14         14         124         Wheal Spearne         14         88           ming Co. of Ireland         7         12         226         Wheal Steres         255         29           meterrow Consols         14         10         128         Wheast St. Cleev         21         15           w East Growndale         2         2         260         Wheal Treatswape         72         115           writi Fowel         1         51         226         89         Mal Trevenna         32         4           with Raskear         19         400         128         Wheal Trevenna         12         10           with Wh. Leisure         12         40         128         Wheal Vietoria         2         2           with Wh. Leisure         12         6         122         Wheal Water         4         34           with Wh. Leisure         12         6         12         24         4         34         4         34           with Wh. Leisure         12         6         10         264         10         22	160 Levant	128 Wheal Providence 34 40
4090 Marko Valley     10     31     99 Wheal Seton     150     835       5000 Mendip Hills     12     12     126 Wheat Spearne     11     83       5000 Mining Co. of Ireland     7     12     256 Wheat Sixcrs     255     29       200 Xanterrow Comools     14½     10     128 Wheat St. Cleer     21     12       128 Norti Fowey Consols     2     2     260 Wheat Trelawney     72     16       128 Norti Fowey Consols     15     20     256 Wheat Trevenna     32	arke Valley         16         34         99         Wheal Seton         150         835           maing Dillis         14         14         124         Wheal Spearne         14         88           ming Co. of Ireland         7         12         226         Wheal Steres         255         29           meterrow Consols         14         10         128         Wheast St. Cleev         21         15           w East Growndale         2         2         260         Wheal Treatswape         72         115           writi Fowel         1         51         226         89         Mal Trevenna         32         4           with Raskear         19         400         128         Wheal Trevenna         12         10           with Wh. Leisure         12         40         128         Wheal Vietoria         2         2           with Wh. Leisure         12         6         122         Wheal Water         4         34           with Wh. Leisure         12         6         12         24         4         34         4         34           with Wh. Leisure         12         6         10         264         10         22	1000 Lewis 15 3	126 Wheal Rose 40 25
39 Wheat Setton   30 Wheat Setton   30 Wheat Setton   30 Wheat Setton   31 Setton   32 Setton   32 Setton   33 Setton   34 S	1	128 Ludcott	512 Wheat Sarah
220 Nanterrow Consols   142   10   128 Wheat St. Cleer   214   12   128 New East Crowndale   2   2   256 Wheat Trelawney   75   116   128 North Fowey Consols   15   20   256 Wheat Trevenaa   31   32   33   33   34   35   35   35   35   35	128   128	4000 Marke Valley 10 31	99 Wheal Seton150 835
220 Nanterrow Consols   142   10   128 Wheat St. Cleer   214   12   128 New East Crowndale   2   2   256 Wheat Trelawney   75   116   128 North Fowey Consols   15   20   256 Wheat Trevenaa   31   32   33   33   34   35   35   35   35   35	128   128		256 Wheal Sisters 25. 20
128 North Fowey Consols., 15 20   256 Wheal Trevenna	Arth Treburget   2	123 New East Crowndale. 2 . 2	128 Wheal St. Cleur 214 15
North Foot sees 11 . Bi 256 Wheal Trewennan	Arth Treburget   2	128 North Fowey Consols 15 20	256 Wheal Trevenna 31
70 North Roskear 101 400   128 Wheal Venland 121 10	Delabole Slate Co. 25	70/North Roskear 101 400 256 North Treburget 24 4	128 Wheal Venland 123. 10
256 North Treburget 21 4   256 Wheal Victoria 2 2	Delabole Slate Co. 25	100 North United	256 Wheal Victoria 2 2
256 North Wh. Leisure 14 6 1024 Wheal Walter 4 3	Delabole Slate Co. 25	256 North Wh. Leisure 13 6	1024 Wheal Walter 4 34
128 North Wh. Providence 24.2 10 256 Wheal Williams 2 20 256 North Wheal Rose 261 10	Delabole Slate Co. 25	256 North Wheal Rose 264 10	206 Wheal Williams 2 20
	Definote State Co. 25	Trouble Court Co 40 .	PODRICAL MANAGE
	w Cofe Wine 50 . 55 Safe Dilto Subscription 23		5000 Alten Mining Company 141 31
256 Penhallow Moor 15 4 15000 Asturian Mining Co 6 2	w Cofe Wine 50 . 55 Safe Dilto Subscription 23	256 Penhallow Moor 15 4	15000 Asturian Mining Co 6 3
		TOO TOULINA	
	cran St. George Un. 13 20   12000 Ditto Serin		
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#### LATEST CURRENT PRICES OF METALS.

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Inon -Bar a Wales - ton 8 15- 9 0 0	COPPER-Ordin. sheets, 7b. 0 0-0 0 10
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Nail rods 0 0-10 15 0	TIN-Com, blocksg cot. 0 0 4 15 0
Hoop(Staf.) 11 5-11 10 0	, bars 0 0- 4 16 6
Sheet ,, ,, 0 0-13 0 0	Refined 0 0-4 18 0
Rays 11 0-11 10 0	Straits h 4 17-4 18 0
Welsh cold-blast 0 0-6 5 0	
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	TIN-PLATES-Ch.,ICi, box 1 9- 1 11 0
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Archangel 0 0-13 10 0	
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Steel, fagt. 0 0-16 0 0	
kegse 13 15-14 0 0	SPELTER-(Cake) 1 18 15-19 0 0
COPPER-Tilef 0 0-87 10 0	ZINC -(Sheet) n export. 0 0-28 0 0
Tough cake 0 0 88 10 0	QUICKSILVER
Best selected 0 0-91 10 0	REFINED METALton 0 0-
a Discount 21 per cent. b Net cash.	e Discount 21 per cent. d Ditto.
e In kegs and a-inch. f Discount 3 per o	cent. g Ditto 21 per cent. h Net cash.
in bond. i Discount 3 per cent.	& Ditto 21 per cent. / Net cash.
m Discount 11 per cent. n Discount 11 p	or cont # For home we it is 201 now ton

IFOM Cur Correspondent.]

TRON.—Welsh and Staffordshire continue firm at quotations, with a good business doing.

Swedish and Russian are quiet.—Scorch pig-fron is not so buoyant this week, and holders appear anxious to make sales at 71s. 6d. for mixed Mos., and 73s. for No. 1, cash. Coppear, Tix-Pax-riss, and Laza are steady at quotations, and in fair demand. Tix, both English and Foreign, is very firm, and stocks are extremely low—very little is to be had at presnt rates.

SPLITER.—About 300 tons have been sold this week at 181. 15s.; the market has since assumed a rather firmer appearance, and may be quoted at 191. sellers.

GLASGOW PIG-IRON TRADE.

TO THE KOITOR OF THE MINING JOURNAL.

Sir.—Since the date of our last, prices have declined considerably, and a moderate amount of business has been done. To-day the market closed heavily at 68s. to 69s. for No. 3; and 72s. to 73s. for No. 1, free on board—cast in 14 days.

Glasgow, Oct.

DOUGLAS & HILL, Metal Exokers.

MELTINGS OF IRON MASTERS.

Wolvementon, Ocy. 7.—The usual quarterly meeting of frommasters in this district took place at the Swan Hotel, for the transaction of business. There was a very large attendance of frommasters, and many dealers, who evinced great spirit in their purchases. There was a fair amount of business done, but no orders to any great extent were given. The iron trade still continues in a very healthy condition, and, from what I can learn, is likely to continue so. The price fixed at the preliminary meeting were fully maintained, and no attempt was made to reduce the prices of any description of iron. Last week an

erder for 10,000 tons of railway iron, and 3600 tons of chairs, was received by a firm in the neighbourhood, for the Shrewbury and Wolverhampton Railway. Many who wanted to make purchases have delayed until the meeting at Birmingham, when the decision of the masters will be more fully known: it is, however, all but certain they will be quite happy to maintain present prices during the ensuing quarter.

Bransingham, Oct. 8.—The meeting of the masters of this district, was held at the Town Hall, and was very numerously attended. There were present the principals or representatives of nearly all the large houses, and many large buyers. The general announcement of all sides was, that trade was good, an abundance of orders on the books, and a prospect of daily increase. Under such circumstances a reduction was out of the question; a and the only consideration was, whether there might not be a little advance. Some were disposed for a rise, but it was eventually settled that no advance upon the prices of the past quarter should take place.—There was not much business done, but no doubt the sales on Saturday evening, at Dudley, will be extensive.

MAGNETIC INFLUENCE OF IRON STEAMERS.—The variation of the compass on beard from built vessels, from the well-known magnetic influence of the metal, ima for a long time occupied the attention of the nautical world and others interested in the subject. By means of a table of correction a very fair degree of exactness has been obtained, but the difficulty has not been overcome so far by that means. Mr. Shepherd, civil engineer, of the Strand, however, has addressed a letter to Lloyd's, mentioning the discovery of an exceedingly simple means of avoiding any magnetic influence at all. Mr. Shepherd has also addressed the Admirally upon the subject.

ELECTRIC TELECHARMS.—The Rev. H. Heighton, of Rugby, has of mined

means of avoiding any magnetic influence at all. Mr. Shepherd has also addressed the Admirally upon the subject.

Electric Telecanapis.—The Rev. H. Heighton, of Rugby, has of lined a patent for improvements in electric telegraphs, which relate to the infriduction of an apparatus to supply the place of the magnetic needle now used for electric telegraphs. This apparatus consists of a glass tube fitted with brass caps at top and bottom, and having a strip of metallic leaf (gold leaf is recommended as best) passing through the centre of the tube, loosely hung in metallic contact with the brass caps; the upper extremity of the leaf being fixed at right angles to its lower end—so that the leaf, from whatever direction seen, will present at some part its flat surface to the leaf, from whatever direction seen, will present at some part its flat surface to the leaf, from whatever direction seen, will present at some part its flat surface to the leaf, from whatever direction seen, will present at some part its flat surface to the leaf, from whatever direction seen, will present at some part its flat surface to the leaf, from whatever direction seen, will present at some part its flat surface to the leaf, from whatever direction seen, will present at some part its flat surface to the leaf, from whatever direction seen, will present at some part its flat surface to the glass) is placed either of the poles of a magnet. The effect of this arrangement is, that when a current of vottaic electricity is caused to one side or the other, according to the directive of the current; and the distinct motion so obtained may be repeated and comuned and used for the purpose of designating letters of figures, or other conventual signals. One of the apparatus is to be placed at each terminus of telegraphic communication, and others may be placed at each terminus of telegraphic communication, and others may be placed at each terminus of telegraphic communication, and others may be placed at each terminus of telegraphic communication, and o

#### COPPER ORES.

Mines. Tons. Price.	Mines, Tons.	Pric
Carn Brea 108 £3 15 0	Wh. Virgin 15 62	0
ditto 100 7 8 0	Wh. Providence 67 4	2 1
ditto 83 4 18 6	ditto 60 3	13
ditto 78 4 16 6	ditto 33 10	0
ditto 73 7 9 6	ditto 18 3	5
ditto 44 3 15 0	ditto 12 1	8
ditto 39 5 6 6	Trenow Consols 73 7	14
ditto 32 2 7 0	ditto 28 4	17
ditto 4 11426 12 6 6	ditto 18 2	1
ditto 11 21 5 14 0	ditte 16 5	2 1
Par Consols 5 6 0	Wh. Brewer 42 2	7
ditto 88 6 1 0	ditto 28 1	13
ditto 74 10 8 6	ditto 27 3	7
United Hills 91 3 18 6	St. Agnes Consols., 80 2	13
ditto 66 3 4 0	Wh. Rodney 41 3	10
ditto 64 5 16 0	ditto 20 2	4
Wh. Sparrow 37 3 8 0	Wh. Kayle 28 9	3
Wh. Prosper 79 5 16 G	ditto 22 4	16
Date 07 0 18 0	Wh. Agar 20 2	12
ditto 56 7 8 0	ditto 10 9	16
Art. West Committee of the Committee of	North Wh. Busset . 28 6	4
ditto 61 5 7 0	Carzise Consols 6 3	13
ditto 42 6 2 6	Wh. Ann 5 8	5

	w total out to state the first		10	TA	LE	RODUCE.						
	Carn Brea 604		€ 3363	3	6	Wh. Brewer	97		£ 235	7	0	
	Par Consols 266		1855	1	0	St. Agnes Consols	80		214	0	0	đ
-	Wh. Sparrow 3258		1065	7	6	Wh. Rodney Wh. Kayle	61	***	188			
	Wh. Prosper 202	****	1065	10	6	Wh. Agar	30	****	150		0	
	Wh. Virgin 196		1033	4	6	North Wh. Basset	28		173	13	0	
1	Wh. Providence 180	** **	864	. 9	6	Carzise Consols	6		21	18	0	
1	Trenow Consols 135	44	817	10	0	Wh. Ann	5		41	- 15	0	

### COMPANIES BY WHOM THE ORES WERE PURCHASED.

	Mines Royal	218	£	1458	10	6
	English Copper	67		276	7	6
	Vivian and Sons	503		3062	6	6
	Freeman and Co	317	*******	1807	18/	G
	Grenfell and Sons	349		1634	11	9
	Sims, Willyams, and Co	402		2124	12	6
Ź	Williams, Foster, and Co	342	*****	1087	13	9
	107 Car R Toldy Tolder to the hard-thought of the same	-	-	2010	-	-
	Total tone	0100	Pri	251	11	0

NO SALE on Thursday next, October 45.

NO SALE On Inursialy next, October 15.

Copper ores for sale on Thursday week, at Andrew's Hotel, Redrath.—Mines and Parcels.—Devoushire Great Consols, Wheti Maria, and Wheal Fanny 1143—Tresavean 515—West Caradon 380—Fowey Consols 243—Wheal Friendship 230—West Wheal Jowel 191—Holmbush 97—Bedford United Mines 92—Marke Valley 76—Wheal Buller 47—Wheal Gorland 16.—Total, 3035 tons.

#### COPPER ORES

At SWANSEA, for sale October 14.—Cobre 105, ditto 90, ditto 82, ditto 74, ditto 60, ditto 48, ditto 117, ditto 95, ditto 92, ditto 64, ditto 30, ditto 21, ditto 106, ditto 96—Santiago 128, ditto 121, ditto 15, ditto 95, ditto 3—Dhill 92, ditto 15, ditto 47, ditto 44, ditto 50, ditto 45—Kapunda 46—Mediterranean 28—Lackamore 13, ditto 6, ditto 5.—Total 1929 tons.

QUARTERLY SALE OF COPPER ORES IN CORNWALL .- TO SEPT. 30. Copper ores, 37,784 (21 cwts).—Fine copper, 3603 tons 11 cwts.—Amount of money, 196,4861. 16s. 0d.—Average standard, 1901. 0s.—Average produce, 71 and 1-16th.—Average rage price per ton, 5/. 4s.

#### Sold as Lisbeard, on the 7th of October, 1846.

31	Mine.	Tons	OS J. Distair	Price			Am.	oun	Pur	chasers.	11.12.51
	Wh. Mary Ann	. 45	· · · · £2	1 1	0	****	£ 947	5	0 Walker,	Parker,	& Co.
	EVEODTATION OF ME	m DD	FOIOTE	D.C. TO	CAI		The fall		- Alle of	Ontal and	

the experts of gold and silver from the port of London for the Silver bars to Hamburgh. 36, Silver coin to Rotterdam. 50,

COAL MARRET, LONDON.

COAL MARRET, LONDON.

COAL MARRET, LONDON.

PRICE OF COALS PER TON AT THE CLOSE OF THE MARKEY.

MONDAY.—Addir's Main 15 -Carr's Harriey 17—Chester Main 16—Graces Harriey 15

—Holywell Main 15 6—New Tanfield 13 3—Old Pontop 13 6—Original Tanfield 13—Ord's Redheugh 14 6—Revensworth Polaw 15—Tanfield Moor 16

Fo Bell and Brown 17—Bewricks and Co. 17—Brown's (unsercenced) 13—Gosforth 17—Hidda 16 6—Hotspur 16 3—Killingworth 17—Brown's (unsercenced) 13—Gosforth 17—Hidda 16 6—Hotspur 16 3—Killingworth 17—Northumberland 16 3—Riddell's 17—Wharneliffe 17 3—Eden Main 17 3 to 17 6—Belmont 17 9—Bradqyll's Hetton 18 6—East Hetton 17 3—Finchale 16 9—Haswell 18 9—Hetton 18 9—Lambton 18 3—Morrison 17—North Heiton Lyons 17—Rinssell's Netton 18—Shottan 17 9—Stewart's 18 6—Withwell 17—Caradoc 17 6—Hartlepool 18 6—Heugh Hail 17 6—Kelloe 18 3—Ludworth 18 3—St. Carthebre's Casopi 17 3 to 17 6—Thornley 17 6—South Durham 17 3—Tees 18 6—West Hetton 16 9—Vest Tees 16 9—Seymour Tees 17 6—South Durham 17 3—Tees 18 6—West Hetton 16 9—West Tees 16 9—Covpen Hartley 17—Dorwentwater Hartley 16—West Hartley Netherton 16.—Ships at market, 2[4.

"WEDNESDAY.—Adair's Main 15—Carr's Hartley 17 6—Stewart's Hartley 16 3—Tanfield Moor 16—World 17 6—Warrelike 17 6—Walfwell 16 —Holywell Main 16—Old Pontop 13—Ord's Redherugh 14 9—Stewart's Hartley 16 3—Tanfield Moor 16—World 13—Carke 17 6—Walfwell 19 3—Haswell 19 3—Russell's Hetton 16 6—South Kelloe 186—Rehardson's 18 mb Brown's unscreened 13—Clarke and Co. 16 3—Hilda 17—Walfwell 16 6—Old Pontop 13—Ord's Redherugh 13 6—West 11 3—Ord's Redherugh 13 6—Russell's Hetton 19 3—Haswell 19 3—Russell's 16 6—South Kelloe 186—Rehardson's 18 mb Brown's unscreened 19 3—Glarke 17 6—Braddyll's Hetton 19 3—Haswell 19 3—Russell's 16 6—Ravensworth's Pelan 18—Tanfield Moor 16—Walf's End Brown's asserted 18 6—Ravensworth's Pelan 18—Tanfield Moor 16—Walf's End Brown's asserted 18 6—Carbon 18 6—Rehardson's Hetton 18 6—Retherugh 18 6—Ravensworth's Pelan 18—Tanfield Moor 16—Walf's End Brown's asserted 18 6—C

GENTILEMAN, who can produce the strongest testimonials I his activity, integrity, and aptitude for general business, is destrous to enter integrated with a SOLICITOR in LONDON; he has had considerable expearable office in the City, and been accustemed to the management of importanges, to bankruptey, and general business, under the directions of the principal aid be willing to enter into an ARRANGEMENT with a MERCANTILE HOUSE the assistance of a CONTIDENTIAL CLERK.—Address (post-paid), "B. C., oursed office, 26, Fleet-street, London.

#### NOTICES TO CORRESPONDENTS.

Our next Journal will be on the usual ENLARGED SHEET, and will contain, beside veral articles, letters from correspondents, and miscellaneous intelligence—continue on of the series of papers on the METALLURGICAL TREATMENT OF METALS foresors Playfair and Bunsen, on Economy in the Manufacture of Ron—the Atmoheric Railway System—the Mining Schools of France and Germany—the Glossary of hing Terms, &c.

Mining Terms, &c.
inam Jordina in Tavistock.—The communication of "Fair Play" is inadmissable—
to facts and arguments, whether in accordance with our own opinions or not, we are always happy to give insertion; but our correspondent has, in his present communication, omitted both—even when treating on a subject, affecting alike the character of
mining agents and the mining interest of an important district.

maining agents and the mining interest of an important district.

\*W. R." (bath).—The original Southwark-bridge shares (6321.2s. 8d. av.) are now only worth 34. The other particulars can be obtained by addressing any respectable broker.

\*M. W." (Glasgow).—We should feel obliged for the particulars referred for every care shall be taken of the Ms., which shall be returned with as little delay as possible.

The Mixing Jornant is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained at Twelve of all the news agents, at the Royal Exchange and neighbourhood.

MEETINGS DURING THE ENSUING WEEK.

MONDAY .... Cambrian & Grand Junction Il way—British Hotel, Westminster, Eleven TUESDAY ... Wheal Seton Mining Company—50 the mine.
WEDNESDAY ... Cameron's Coalbrook Steam Coal and Swansea and Longhor Railway—offices, at Eleven for Tw-4ve.
THUBSDAY ... Royal Mail Steam-Packs Company—London Tavern, at One.

#### THE MINING JOURNAL And atmospheric Railway Sagette.

#### LONDON, OCTOBER 10, 1846.

One of our correspondents, in his report of the ironmasters' meeting at dirmingham, on the 8th inst., states—"The usual quarterly meeting of the South Staffordshire ironmasters was held yesterday mong of the South Staffordshire ironmasters was held yesterday a the Town-hall, Birmingham. There was an unusually large attendance of ironmasters; and, as was expected, the prices agreed to at the last quarterly meeting were continued. The price of bars was agreed to at 10*l*., and pigs varied from 5*l*. to 5*l*. 10s. Although this is no nominal advance, it will, in fact, amount to one—as, during the last quarter, a great deal of iron has been sold at less than the agreed wrige; but you the firmness of the wayler, and the great the agreed price; but now the firmness of the market, and the great demand, encourage the ironmasters to hope such will not be the case during the ensuing quarter." Seeing two hundred thousand men are now actually employed in the construction of railways in Great Britain and Ireland, and the expectation of the necessary lines in the latter part of the British dominions being accelerated by the aid of Government, as the most effectual way of giving employment at remunerating wages to the surplus population of that country, the iron trade have only to keep in mind the requirements in iron for each mile of railway upon which labourers are now actually employed, to be convinced a very extensive demand must arise, as these works advance to a point, to require the iron to complete their construcadvance to a point, to require the iron to complete their construc-tion. It has been satisfactorily ascertained, that railways are, in the aggregate, composed of 4 rails of 70 lbs. per yard each, 4 chairs of 20 lbs. do., 8 pins of 8 lbs. do., crossings 14 lbs. do.—together 112 lbs. each rail, or 4 cwts. per yard,—being for the 4 rails, &c., equal to 352 tons per mile. To these is to be added the stations covered with iron roofings, turn tables, and extra rails at stations, which, with the waggons, engines, and tenders, the iron girders used for bridges, and culvers from draining, tanks, &c. &c., it will be found that a mile of railway will require at or near 700 tons of malleable and cast iron, equal to about 820 tons of pig iron.

In our columns of to-day will be found a tabular statement, showing the quantities and value of ores sold during the past quarter ending the 30th of September, by which it will be seen that the De-vonshire Great Consols still takes the lead, although her produce has fallen off from the returns of the preceding three months, both as to quantity and quality. We find the sales, for the three months ending June, 4809 tons, realising 31,864. 19s. 6d.—or nearly one-sixth of the value of the whole of the ores sold in the county, and giving an average price of 6l. 12s. 6d. per ton; whereas, in the past three months, the sales have amounted only to 3997 tons—being a decrease of 812 tons, or about one-sixth; the amount of sales being 22,254l. 17s., or a diminution of 9610l. 2s. 6d.—being nearly one-third in the vaor a diminution of 96101. 2s. 6d.—being nearly one-third in the value of the ores; while, as we have already observed, the reduction in the quantity of ore is only one-sixth—thus clearly proving that not only has the mine, in common with others, suffered from the effects of the reduced standard, but also from a depreciation in the quality of the ores. The average price obtained for the sales of ore in the past quarter, it will be seen, is only 51. 11s. 3d.—or a reduction of 11. 1s. 3d. per ton—being not more than one-half the rate at which the ores sold, on the mine being worked in the first instance, some 18 months or two years back. The mine, nevertheless, is rich enough; and, when it is considered that not more than some 7001. or 8001, was expended in bringing her into a productive state—while the 800% was expended in bringing her into a productive state-while the profits realised in the past two years from the working of the mine may be fairly set down at 140,000%, and her present value taken at 400,000% to 500,000%.—we think it requires little to be added, to prove that mining enterprise is of an encouraging nature, although we are fully sensible that heavy losses have, in many instances, been we are fully sensible that heavy losses have, in many instances, been sustained, arising in a great measure from want of care, and that scrupulous attention on the part of practical men, which is ever indispensable, but which we find too frequently interfered with, or prevented by theorists. As regards the other mines which form a portion of the list, it will be seen, that the Consolidated Mines, the United, North Roskear, Carn Brea, Par Consols, Fowey Consols, Wheal Seton, and West Caradon, eight in number, produced 14,645 tons, yielding 81,0291. 128.—or, on an average, 51. 10s. 8d. per ton; while the returns from the next eight mines on the list, including tons, yielding \$1,0291. 12s.—or, on an average, 51. 10s. 8d. per ton; while the returns from the next eight mines on the list, including Tincroft, Wheal Prosper and Wheal Friendship, Tresavean, South Wheal Basset, Treleigh Consols, United Hills, South Caradon, and East Wheal Crofty, give 6948 tons, or 31,4441. 10s. 6d.—being an average of 4l. 10s. 6d. per ton. The other mines (77 in number), show a total of 12,194 tons, and 61,757l. 16s. 6d. in amount, or 5l. 1s. 3d. per ton—thus making a general amount, as shown in the table referred to, of 37,784 tons, amounting to 196,486l. 16s., or at an average rate of 5l. 4s. per ton. an average rate of 5t. 4s. per ton.

With respect to the produce of the mines of Ireland, it will be seen

that, during the quarter, there has been sold 6325 tons, producing 33,558L, or an average of Sl. 6s. 2d. per ton—while, in the previous quarter, the quantity was 6129 tons, producing 37,8021. 5s., averaging 61. 3s. 4d. per ton—showing that, although there has, in the quarter just passed, been an increase in the quantity of 196 tons, there has been a decrease in the amount of 42441. 5s.—or a difference of the contract o ence on the average against the adventurers of 17s. 3d. per ton.

The alleged valuable discovery of gold, in one of the mines of South ustralia, has very naturally called the attention of the colonists to a important question—What power has the Crown over such protect? In last week's Mining Journal, we made a few observations on the subject, concluding with an extract from Chitti's Blackstone, on the claim of the Crown to the produce of mines of gold and silver. We think there cannot be two opinions as to the legal claim of the Crown to Royal mines; nor does the peculiar manner in which the lands of South Australia were absolutely sold in fee

simple, confer any additional right on the colonist, over what he would have enjoyed in the possession of land in England, with a gold deposit thereon; but, while we think we must acknowledge such right; we very much question the policy of enforcing it in a colony which has made such exertions to overcome the difficulties inseparable from colonisation, and to raise themselves to a level with their able from colonisation, and to raise themselves to a level with their fellow subjects in the mother country. For years they had serious up-hill work—entirely devoted to pastoral pursuits and agriculture; their flocks and herds increased upon their hands, without sufficient demand to cause an influx of other species of wealth; and the consequence was that, at one period, the most serious fears were enter-tained for the very existence of the colony—insolvency and rain ap-proaching their very doors. The mineral discoveries which were subsequently made—carried out with industry and spirit—gave an entire new turn to their affairs; and with their productive mines of copper and lead, the wealth of the colony has rapidly increased. Should, however, the discovery of gold induce the Government to put in its claim, and thus place restrictions on the free enterprise of the colonists, it is highly probable that it will prove a serious bar to the rising welfare of the colony, retard its now rapidly-increasing trade, injure the shipping interest, and, in fact, spread the most in-jurious effects throughout the land, which will be more or less felt by every class in Australasia. We trust, however, when all the claims which this interesting spot has, upon the assistance of a paternal Government, are fully considered, we shall hear no more of either claiming the gold returns, nor the enforcement of royalties on their copper or other ores.

It will be seen, by our advertising columns, that the first general meeting of Cameron's Coalbrook Steam Coal and Swansea and Loughor Railway Company takes place on the 14th instant, under the provision of the Company's Railway Act. Among the crowd of railway bills, which have been passed last session, none deserves more special notice than this one, which has recently received the sanction of Parliament; and, as we presume the construction of the line, and the advantages calculated upon, will form subject matter of report at the meeting, it may be well to submit such observations as occur to us, arising not only from a knowledge of the property, but having well considered the several points bearing upon it in a mercantile point of view, and availed ourselves of much useful information, to which we have had access—as also attended experi-ments made, the results of which have, however, already appeared in our columns. It is now some six months since a trial took place—or, rather, we might designate it, an excursion—with the view of —or, rather, we might designate it, an excursion—with the view of testing the coal as to its capacity and absence of smoke,—for, although the result was highly satisfactory, yet by no means could the trial be said to be perfect, or carried out in a manner so as to establish the incrits or advantages of the coal over that generally used in steam-vessels. We gave at the time the result of the observations then made; and, on the occasion, adverted to the advantages attendant on the use of this peculiar description of coal—the absence of smoke, the economy of stowage, and the properties moreover possessed by the fuel being composed of an increased quantity of carbon,—and hence its heating power: thus reducing the consumption, and adding to those advantages for the purpose of steam, which may be well understood, as reducing the quantity consumed, as also the bulk in the stowage. It would appear that, of this coal, the company have secured a sett, or grant—yielding on an aggregate of the three veins 16,000 tons per acre, or in the whole 13,000,000 tons—in addition to which, 400 acres of bitminious coal have been secured, yielding 14,520 tons per acre, or a total of 5,808,000 tons. —in addition to which, 400 acres of billiminous coal nave been secured, yielding 14,520 tons per acre, or a total of 5,808,000 tons. With respect to the economy in its use, we will assume for a moment that only 20 per cent. be saved—which, however, we feel assured is far below the mark: in this alone an advantage is secured as to the cost of the article, while the saving in stowage is not the least consideration, whether we consider the beneficial advantage which might be reaped by freights, or the less tonnage to which the vessel is subjected as dead weight. There can be no question, but the absence of smoke is not only an advantage,—which, if report speaks truly, will be forced on the community at large, and thus render necessary, either an alteration in the furnaces or stacks in manufactories, or the adoption of another description of fuel more manufactories, or the adoption of another description of fuel more pure and evanescent than that now employed—but that, by an application of this description of fuel with a grate properly constructed, a saving is effected in the first cost. Much must necessarily depend upon the price of the article; but as the company must see that, to seeure a sale, they must be satisfied with a reasonable profit,—and when, moreover, it is considered that, with an increased demand, there is a reduction of the cost, whether as attendant on the employment of agents, or the expense of working engines, while a comparatively larger return is made on the capital employed—we can well imagine that the company will render their coal at a moderate price—indeed, if we are to give credence to the statements emanateman. price—indeed, if we are to give credence to the statements emanating from the directors, they can well afford to do so; and, we feel assured, would not only benefit the public, but themselves and the

shareholders, whose interests they represent.

As we believe no question can arise with respect to the advanages which must accrue from the active prosecution of the collieries of the company, the next question which presents itself is—what are the prospects held out by the railway, projected from the collieries to Swansea? To render this manifest we have, at some trouble, endeavoured to collect fair data on which an estimate may be made—the result of which may be given in a few words. The present output may be taken at 100 tons per diem, or 600 per week; and, on completion of certain works of extension now in hand, the and, on completion of certain works of extension now in hand, the collieries will yield an increase of 2000 tons per week—making, together with the present 600 tons per week, an annual vend of 135,200 tons. Taking the distance by railway from the colliery to Swansea—the shipping port—at nine miles, and charging 1d. per ton per mile on the coal, for cost of transit, on 135,200 tons, will give an annual cost of 5070L; the same quantity, carried at the present rate form to a set of the confer the whole distance would cost sent rate of say, 2s. 8d. per ton for the whole distance, would cost the company 18,026l. 13s 4d.: the difference, 12,956l. 13s. 4d., will hus be the profit to the company on construction of the railway lone—the total expense of which will be under 20,000l.

We have deemed it right, at a moment when railway projects excite so much attention, and where apprehension may exist as to a remunerative return being obtained on the outlay, thus to enter into some few statistics as regards this company, as the advantages to be derived from the construction of the railway are so manifestically as the statement of the railway are so manifestically as the statement of the railway are so manifestically as the statement of the railway are so manifestically as the statement of the railway are so manifestically as the statement of the railway are so manifestically as the statement of the railway are so manifestically as the statement of the railway are so manifestically as the statement of the railway are so manifestically as the statement of the railway are so manifestically as the statement of th nifest and intimately associated, and dependent on the extension of the working of the coal tract possessed by the company.

The progress making in the atmospheric railway tube affords a curious conviction of the development of human ingenuity, from the wide spread knowledge of every branch of science now afforded to every class of the community. There is, we believe, no doubt enter-tained but that atmospheric railways are only in their infancy, and will ere long progress, if not ultimately succeed: there existing at will ere long progress, if not ultimately succeed: there existing at the present moment, as appears to us, alone the difficulty of the valve—the impossibility we had nearly said, but, certainly, the impracticability, so far as has been hitherto demonstrated, of keeping it airtight—the great obstacle which presents itself; as, in other respects, the principle may be said to have been established, and proved successful. We this week give two descriptions of plans recently patented—one of which, as will be seen, proposes to get rid of any valve, or opening, through which leakage, and consequent loss of power, could accrue, working the machinery or propulsive power by means of a piston, traversing a close tube. Whether the mode proposed may effect the desired end, or otherwise, yet remains to be seen; but that

we shall arrive at something like a perfect system ere long, no doubt can be entertained. The other is an entirely novel plan, in which short lengths of tube, of large calibre and great power, are employed, which propels the carriages over the intervening spaces by the momentum obtained. There are prejudices to overcome in all these new plans, as well as in Greenhow's geometrical railway, or any other novel project, which we can well understand to arise with interested parties; but every day affords additional proof of the advance of science, and the removal of that bigotry which has been too much the bane of enterprise, and too oft destroyed the prospects

of many a useful artisan.

A rather curious coincidence appears respecting the plan for a close tube, represented in our present Number, worked by a flexible air-tight covering to the longitudinal opening—it having been patented by Mr. Wherler, and suggested by two of our usual cortexts. respondents, unknown to each other, until a notice of each appeared in the Mining Journal—viz.: Mr. Dela Haye, of Liverpool, and Mr. A. T. J. Martin, of Penzauce. In a communication from the former, since a description appeared in the Mechanics' Magazine, he observes—"I do not think Wheelers's plan will answer, as the piston could easily outstrip the train, if a slight accident caused the front carriers to be reised a few inches... if a slight accident caused the front carriage to be raised a few inches—in such case, the under wheel would escape from the upper; it was principally to obviate this inconvenience that I proposed a long break, sliding in a groove. The opening of the tube must be at least 4 inches wide, to allow a wheel of sufficient strength to propel the train." It is certainly evident some means must be adopted to keep the carriage down, or the tendency of the mules. dency of the under wheel would certainly be to raise it, and slip off in front; the addition of some such appliance would not invalidate the patent. Messrs. Clarke and Varley, whose resilient atmospheric railway tube we have on several occasions noticed, are still spheric railway tube we have on several occasions noticed, are still persevering in their efforts to render as perfect as possible all the details, to secure economy in the first construction, absence of leakage, the smallest possible amount of friction, the admission of the necessary atmospheric pressure behind the piston, the consequent availability of the full tractive power given by any amount of exhaustion, and speed, certainty, and safety, in the transit. Preparations are now making for the laying 150 yards of tube on the Blackwall line; and we hope, at an early period, to be able to lay before our readers the effects produced. We have, we believe, given every one of the inventions for atmospheric propulsion a fair description, and thus brought them fully and impartially before the scription, and thus brought them fully and impartially before the public—leaving them to work their way in the engineering world according to their merits.

Since our last, the Kingston has arrived from South Australia bringing us files of newspapers—some extracts from which will be found in the Journal: we also learn, that the Malcolm was freighted with 350 tons of ore, the Regia 220 tons, and the Cleveland 210 tons, with 350 tons of ore, the Regia 220 tons, and the Cleveland 210 tons, all direct to Swansea. The Mary White had arrived at Adelaide, from Sydney, and would take between 400 and 500 tons of Kapunda copper ore, direct to Swansea; and the Phabe, which had just arrived from Eugland with emigrants, was to be dispatched in three weeks, with 600 tons of Burra Burra ore. This latter mine had delivered on the wharf ready to be shipped, 1717 tons of ore, within the space of five months, from the time of commencing working—besides from 400 to 500 tons of inferior ore at the mines, which will be smelted the frances being nearly expected; the Ruye Burra Burra ore. be smelted, the furnaces being nearly completed: the Burra Burra Mine sends 100 tons a week to the port, and the Kapunda 50 tons a week. Shares in the Burra Burra are freely bought at 33l. the 5l. serip. The ore by the Kingston is from the South Australian-Company's Mine at Mount Barker. New mineral localities were constantly being discovered in the colony.

SOUTH AUSTRALIAN MINING ASSOCIATION.—In the Mining Journal of SOUTH AUSTRALIAN MINING ASSOCIATION.—In the Mining Journal of the 19th ult., we gave some very full particulars of the progress of mining in South Australia, more particularly as related to the Burra Burra and Kapunda Copper Mines: since which date we have been favoured with some further information by Mr. F. J. Beck, of Tokenhouse-yard, the representative in England of the Australian Mining Association. From it, we learn that the annual meeting of the association was held on the 15th April last, when the first annual report was laid before the shareholders; it congratuated the seriabeldars as the hospital test of their presents which E. that the annual meeting of the association was held on the 15th April last, when the first annual report was laid before the shareholders; it congratulated the scripholders on the cheering state of their prospects, which far exceeded their most sanguine expectations; the quantity of copper raised from the Burra Burra Mines, from the day of opening, Sept. 29, 1845, to the 28th March last, was 2704 tons—of which 1197 tons had been exported, 723 tons had been reserved for smelting, and the remainder was on hand at the port; the average weekly raising was 69½ tons, the largest quantity raised in one week was 128½ tons, and a considerable increase in the last three months had taken place, as compared with the previous three months. The directors were making every possible exertion for the completion of the smelting-house, which had been delayed for want of bricks, but they expected to commence operations in a very short time. The township of Kooringa was rapidly increasing, and it was contemplated to erect a school-house, which would answer also for a place of worship. The business of the mines had become of that important character, that the captain could not perform the whole of the required duties, and Samuel Stocks, jun, Esq., had been appointed a resident director to superintend the works. From the statement of accounts, it appeared that the wages and payments on account of working the Burra Burra Mine were 4495l. 11s. 11d.; cartage of ore, 5303l. 17s. 8d.; and there had been invested in land and improvements, 11,845l. 7s. 10d. The amount received for the 1197 tons of ore shipped to England was 10,024l., or an average of nearly 9l. per ton. Upon the whole, the prospects of these mines were most encouraging—and as they were opened in depth, they gave every sign of gradual improvement.

they were opened in depth, they gave every sign of gradual improvement.

TESTIMONIAL TO DR. CLANNY, THE ORIGINATOR OF THE IDEA OF A SAFETY LAMP FOR COAL MINERS.—We last week noticed, at some length, the efforts now making to raise a subscription, for the object of presenting Dr. Clanny with a suitable testimonial, as a reward for his long and more than gratutious services in the cause of humanity—having gone on devising and carrying out suggestions of improvements for the last 30 years, at great pecuniary cost. In addition to the historical data we then adduced, in corroboration of our assertion, that Clanny first started the idea of a safety lamp, we are now enabled to add, that his original safety lamp was employed in 100 acres of inflammable air, before any other safety lamp was thought of by Davy, Stephenson, and others; and that his steam safety lamp was the first self-feeding safety lamp ever put to use.

was thought or by Davy, Stephenson, and others; and that his steam safety lamp was the first self-feeding safety lamp ever put to use.

\*\*LEICESTER AND BEDFORD RAILWAY, —The company for the construction of this railway, which was formed about May, 1845, have now received the sanction of the scripholders to a dissolution of the company, with a view to its reconstruction under arrangements with the Great Northern Company: it has been re-registered under the title of the Leicester and Bedford Company (1846), all necessary legal forms having been adopted, and the company are now prepared to go to Parliament during the next session. The original destination of the line was from Leicester, by Market Harborough, Rothwell Kettering, through Bedford to Hitchin—thus supplying the wants of a rich and thickly-populated district, passing through the finest grazing land in the kingdom, and taking up the traffic from the north of England, Manchester, Shefield, Leeds, and Nottingham, to London. The line is the nearest to the metropolis of any of the number of competing lines as yet projected. The terms on which the new arrangements are, we understand—that the number of shares be 150,000, of 104; secripholders in the original to have a 104. share for every 204, share of the former, on paying a deposit of 6s., when he will be credited 20s.—8s. per share being a credit out of the arrangements with the Great Northern Company, the latter takes 75,000 shares, paying 20s. deposit, and signing the deed for 750,000. Scripholders not willing to avail themselves of these arrangements, may receive 6s. per share, being the proportion remaining after payment of the expenses, and will be considered so to have elected, unless the claim for shares is made on or before the 3d of October. The line we always thought held out hopes of a profitable result, had it passed the fiery ordeal of Parliament; and it certainly appears that, taking advantage of a connection with the Great Northern Company, at Hitchin, places it in a far more advantageous pos prospect of obtaining its bill,

PROGRESS OF FRENCH MINING INDUSTRY.

On the 28th of the present month, the Minister of Marine will receive contracts for the supply of 3,000,000 kilogrammes of English coal for the Isle of Bourbon, Sante Maria de Madagascar, and Mazotte. Particulars as to the terms of the contracts may be obtained in Paris, at Havre, and at the French Consuls, in Newcastle-upon-Tyne. A question has arisen, whether this vast quantity of coal is to be conveyed in French or English vessels. Last year, I believe the French Government insisted upon the employment of French vessels, whereby the profits of the English contractors were greatly lessened; but this, I apprehend, amounted to a violation of the navigation treaties between England and France. The English Government should take up the matter; and if it were to do so, there is no doubt it would be able to induce the French authorities to abandon the determination which they are represented to entertain, of allowing none but French vessels to be employed. A little while ago, notices were issued of contracts for the supply of a vast quantity of American tobacco, and it was laid down as a fixed condition that the tobacco should be brought to France in French vessels; but, on the remonstrances of the American Minister this condition was represented to the condition was represented to the condition that the tobacco should be brought to the first the foliable for the condition was represented to the condition that the foliable foliable condition was represented to the condition was represented to the condition that the condition was represented to the condition of the condition was represented to entertain, of allowing none but French authorities to be considered to the condition of the condition

France in French vessels; but, on the remonstrances of the American Minister, this condition was given up, and, in consequence thereof, all the freight will fall to the American shipowners. Now, if I mistake not, the navigation treaties between England and France, are the same as those between France and the United States; and, if so, the French Government has no more right to impose upon English coal miners the necessity of employing, at a vast outlay, French vessels, than it has to compel American tobacco sellers to employ them. I call your particular attention to this matter, for it is of great importance to the coal interest.

The Moniteur of this morning contains a notice that, on the 30th October next, the Post-Office will receive contracts for the supply of 39,600,000 kilogrammes of coal, necessary for the packet service in 1847. Conditions of the contracts may be obtained at the French Consulate, in London, at Brussels, at the Packet-Boat Office, at Calais, &c. I have not time at this moment to inquire, whether in this case the employment of French vessels is insisted upon; if it be, I would strongly advise such of your readers as may propose to accept the contracts, to bring the subject forthwith under the attention of Lord Palmerston. I say again that my impression is, that such a condition is illegal; and that, if remonstrated against by the British Government, would most probably be abandoned. If it be maintained, it will cause a grievous loss to the British coalowners, and also to the British shipowners; perhaps, even it will prevent the former from contending at all against the commettion of the British and provent the former from contending at

will cause a grievous loss to the British coalowiers, and also to the British coalowners; perhaps, even it will prevent the former from contending at all against the competition of the Belgians, and the coal people of the Loire.

In 1833, France possessed only 75 steam-vessels; the number now is 238; in 1840, the steam-vessels were of 148,706 horse power, which is equal to the force of 1,006,942 men; in 1844, they were of 188,847 horse

equal to the force of 1,006,942 men; in 1844, they were of 188,847 horse power, equal to 1,821,929 men.

It is stated that extraordinary activity prevails in the cannon foundries of the Government; and it is believed from this, that the intention is to arm the fortifications of Paris, in defiance of the law.

The iron monopoly in this country has naturally had the effect of sending up the shares in the iron establishments to an enormous price. The present price of the Decazeville shares is 3500 fr., which is seven times more than that at which they were issued. Other establishments have been yet more profitable. That of Terre Noire, sear St. Etienne, for example, pays dividends equal to 75 or 76 per coat, on its original capital. Its shares are scarcely ever to be found in the market; but when, by chance, any do appear, there is great competition to obtain them—and it is by no means nusual to see half shares sold at from 42,000 to 45,000 fr.

The furnaces and establishments of Chatillon-sur-Indre are advertised for sale on the 5th November.

The furnaces and establishments of Chatillon-sur-Indre are advertised for sale on the 5th November.

The shipping interest, as has been before explained, suffers more cruelly, perhaps, than any other from the scandalous monopoly on iron. The construction of merchant vessels in iron is perfectly impossible at the present price of that article. A ship built of French iron would cost at least three times as much as one built of English iron. For articles of the commonest necessity the price is double, oftentimes treble and quadruple, of the same articles in England; a cable, for example, which can be had in London for 600 fr. or 700 fr., costs at the very least in France 1500 fr.

The French Government, which for some months has been pushing on the fabrication of steam-vessels in iron for the national navy, has, it is said, determined on building no more, in consequence of the experiments made in England having demonstrated that iron cannot resist bullets so well as wood.

The Free Trade Association held a second public meeting last week. Almost all the speakers confined their attacks to the iron monopoly, dealing them some rude blows. It is the giant monopoly in this country—the very key-stone of the monopolist arch; and hence free trade partisans do well to belabour it.

The total number of persons employed in the iron and linen manufac-

well to belabour it.

The total number of persons employed in the iron and linen manufactories of France do not exceed 500,000. The population engaged in agriculture is, at least, 30,000,000. For the benefit of the 500,000, the 30,000,000 agriculturists, with the 4,500,000 engaged in other pursuits, are heavily taxed, without any benefit whatever to the public treasury. St. Dizier letters, of the 1st October, mention that one establishment had sold its white cast-iron at 196 fr. the 100 kilogrammes, taken at the furnacés. Cast-iron, for castings, was much demanded, and details are given of the prices of different articles; but it is not worth while repeating them.

of the prices of slifferent articles; but it is not worth while repeating them.

American Iron Trade.—The petulant outcries of the fronmasters at Pennsylvania against the effects of the new tariff on their interests continue violent as ever; but from causing apprehension, they now merely move the mirth of the community. It has been so often thoroughly demonstrated, that the end of their clamour is not legitimate protection, but sectional and individual aggrandisement, that everybody who pays attention to the subject is inclined to ridicule the vehemence of their deplorings. It has been ascertained that the highest estimate made by any in the trade for producing a ton of anthracite pig-iron, is \$15, a little mone than \$3t, while many make it for much less; this has been sold for \$25 to \$30—leaving a clear profit, after deducting freight, &c., of \$10 or \$12 per ton; so that, if with a protective duty of 30 per cent., they cannot compete with foreign manufacturers, the public, opinion is, that the support of the iron trade would be a public burden. It is certain, that many of the iron-works in the manufacturing districts have ceased altogether, others in course of erection have been abandoned, and the majority of the whole in work have diminished their production. But it must be borne in mind, that many of the works have been carried on by mere speculators with inadequate capital, and the sudden curtailment of their immense profits has caused their cessation. The decrease of manufactured iron by other companies, although held forth as an example of the bad effects of the new tariff by the enemies of the measure, is chiefly the result of the intense heat of the weather, which has made it utterly impossible for men to work one-half of the time. In short, those most conversant with the trade, feel no apprehension that the American production of iron will fall off in consequence of the loss of its extreme protection.—Correspondent of Birmingham Journust.

Loconotyte Engines.—Mr. R. Nisbet, of Lambden, has patented so

terry impossible for men to work one-half of the time. In short, those most conversant with the trade, feel no apprehension that the American production of iron will fall off in consequence of the loss of its extreme protection.—Correspondent of Birmingham Journal.

Locomotive Engines.—Mr. R. Nisbet, of Lambden, has patented some improvements in locomotive engines and railways, which consist in making such additions to engines and railways, as to enable a train to ascend, at a very slightly diminished speed, almost any incline. A toothed circle or ring is bolted, or otherwise secured, to the rim of each driving wheel of the locomotive engine—or, if necessary, a circle of teeth may be attached to each side—the diameter of which, at the pitch line, must of course be the same as the diameter of the sole or bearing periphery of the wheel. Racks corresponding with these toothed rings are laid down at the inclined portions of the railway, and may either be secured to seats formed in the chairs for their reception, or bedded on separate longitudinal sleepers laid for that purpose; they are continued beyond where the gradient commences, to the distance equal to the length of the longest train likely to travel thereon; at the beginning, or where the toothed rings first take into these tracks, the pitch line is placed below the level of the rails, and the teeth at the same point are bevelled off on one side to a sharp edge. From this it gradually rises until it attains a proper level, and the teeth at the same time are bevelled less in proportion as they rise, until they assume a proper shape. This arrangement will facilitate the junction of the rings with the racks, and prevent any possibility of the teeth of the one coming opposite the teeth of the other. On railways intersected with many crossings, he prefers making use of only one circle of teeth to each wheel; this he places on the inside, as where the flange passes there will be room for it; also, by cutting a portion of the rail away, through which it may pass fre

THE IRON TRADE OF SCOTLAND.

There is considerable difference of opinion, as to the average weekly pro duction of any given number of furnaces; but we think that, at a very derate calculation, it cannot be named less than 110 tons per week from each furnace at all the works, on an average, throughout the whole year We may here observe that, at the present time, two of the furnaces at the Govan Iron-Works are producing 200 tons each; the production of some of the furnaces at Langloan, Monkland, and Garscube, is also very large, compared with other works.

BLAST-FURNACES IN SCOTLAND AT DIFFERENT PERIODS SINCE 1805.

BLAST-FURNACES IN SCOTLAND-SEPTEMBER, 1846. Name of Works. County. In Blast. Out. Repairing.

The Bunaw furnace, in Argyleshire, is omitted from the above list, as it only produces from 25 to 30 tons of charcoal pig-iron weekly—the whole of which is sent to Wales for manufacturing into tin-plates, &c.; it is uncertain whether it be in blast just now or not.

SCOTLAND-SEPTEMBER, 1846,

New furnaces are proposed to be erected at the following places during the course of 1847, provided the supply of coal and ironstone turns out of good quality and sufficiently abundant:—

Portland, near Kilmarnocl	ζ, .	A											
Dalmellington, near Ayr		-	di	tte	)	 	 		 	٠.		 	
Blair (additional)	4		di	tte		 	 	i.	 			 	
Eglinton (ditto)													
Clyde (ditto) Lanarkshire						 . 010			 			 	
Forth (ditto) Fifeshire							 		 			 	

SALES OF ORES FROM THE COPPER MINES OF CORNWALL, FOR THE QUARTER ENDING SEPT. 30, 1846. No. Ticketings.

Devenshire Great Consols	140 190 61	3997	£22254 17 0
Consolidated Mines	4	3032	.17668 5 0
United Mines		0409	.11741 16 6
United airies	3	2492 1812 1847	10145 10 0
North Roskear	2	1812	.10145 13 0
. Carn Bres		1847	. 9991 18 6
Par Consols	6	1470	. 8484 0 6
Fowey Consols	6	1801	. 8290 0 0
Wheal Seton	3	1145	. 7632 7 6
West Caradon	3	1046	. 7075 11 0
Tincroft	3	1280	. 5515 8 0
Wheal Prosper and Friendship		896	5096 10 6
Trocayoun	8	1460	. 5485 0 6
Tresavean		715	3516 14 0
	3	611	. 3332 15 6
Traited Wille	9	864	
United Hills	0	864	3249 2 6
South Caradon  East Wh. Crofty, Dudnance, & Longel Stray Park and Camborne Vean  Perran St. George, Bolena, & Wh. Leis. Leyant	A	522	3249 2 6 2953 11 0
East wh. Cronty, Dudhance, & Longe	1		
Stray Park and Camborne Vean	1	553	2786 12 0
Perran St. George, Bolena, & Wh. Leis.	2	526	2745 14 6
Levant	2	439	2730 13 6
South Wheal Francis	2	288	2910 14 0
Levant	2	288 649	2707 11 6
South Roskear and Wh. Chance	2	439	2352 10 6
South Roskear and Wh. Chance Grambler and St. Aubyn East Wheal Crofty	2	458	2304 15 6
East Wheal Crofty	2	344	2015 13 0
Trenow Consols	3	344	1986 4 6
Holmbush	3	318	1873 19 0
Holmbush South Towan and Wheal Lydia Creegbraws Dolcoath	2	429	1707 1 6
Croochraws	9	308	1701 16 6
Delegath	1	308 413	1644 0 0
Wheal Friendship	1	994	1614 10 0
Padford Haited		224	1614 10 0
Bedford UnitedLanivet Consols	8	2/3	1620 14 6
Lamvet Consols	2	290	1000 1 0
wheat Ellen	2	248	1413 0 0
Wheal Ellen Trettlellan Wheal Harriet Barrier Wheal Virgin Wheal Jewel West Wheal Treasury	3	809	1318 12 6
Wheal Harriet	2	309	1272 13 6
Barrier	2	240	1203 5 6
Wheal Virgin	1	208	1178 4 0
Wheal Jewel	2	243	1046 19 0
	2	208 243 160	1006 9 0
Tretoil	3	152	642 9 0
Wheal Union	1	8	79 0 0
Wheal Brook	2	13	132 14 0
Relistian Wheal Plenty	1	8 13 5	25 2 2
Wheal Plenty	1	4	25 4 0
Treviskey	1	139	964 9 6
Ting-Tang	1	74	257 3 0
Wheal Maiden	2	117	504 8 0
Wheal Maiden Hawkmoor. St. Agnes Consols.	1	13	64 0 6
St Agnes Consols	9	233	518 8 6
Wheal Sietore	2	140	694 3 0
		149 123 48	642 15 0
Wheel Arms	1	120	643 15 0 90 2 0
Wheal Anna	1	40	90 2 0 228 9 0
Williams's East Downs	* *******	48	
Wheal Maud Wheal Rock	1	5	17 0 0
Wheal Rock			2 3 0 8 15 6
Pumbroke		1	8 15 6
Condurrow	*******	150	592 17 6
Godolphin Wheal Vyvyan East Pool	1	117	550 2 0
Wheal Vyvyan	1	79	295 1 0
East Pool	1	77	411 19 0
Hanson Mines	1	35	176 15 0
	2	103	404 16 6
West Grambler	1	13	77 7 0
West Wheal Jowel	2	216	758 16 0
Providence Mines	1	42	. 126 11 0
Wheal St. Andrew	1	37	28 13 6
Carn Perran	2	60	216 11 6
Wheal Trenwith		28	150 10 0
Wheal Trenwith North Wheal Basset Wheal Buller	3	90	363 7 0
Wheal Buller	2	279	381 11 6
	9	979	892 11 0
Lawis Mines		10	58 0 0
West Fowey Console			
Lewis Mines West Fowey Consols Botallack	THE PERSON.	71	311 11 0-
Wheat Dravidana	********		377 15 0 856 9 0
Wheal Providence	*******	166	
Particular One	******	50	238 15 0
Bastian's Ore		26	95 13 6
Wellington	*******	11	66 0 0
Wheal Bucketts	******	30	150 0 0
Martin's ore 1		14	32 4 0
Tamar 1	*******	10	76 5 0
Marke Valley	********	111	269 3 6
Wheat Gorland 1	******	26	96 0 0
North Downs 1		59	284 9 6
	******		89 18 0
West Trethellan 1		31	OP 10 U
Penstruthal 1		31	148 19 0
West Trethellan l Penstruthal l Brewer l		16	148 19 0
West Trethellan   Penstruthal   Brewer   1		16	148 19 0 218 10 6
West Trethellan   Penstruthal   Brewer   1		16	148 19 0 218 10 6 596 7 0
West Trethellan   Penstruthal   Brewer   1		16 83 134	148 19 0 218 10 6 596 7 0 291 2 6
West Trethellan		16 83 134 40 17	148 19 0 218 10 6 596 7 0 291 2 6 18 4 0
West Trethellan Penstruthal Brewer Wheal Rodney 3 Wheal Rodney Wheal Caroline Rodrath Consols West Wheal Maria		16 83 134	148 19 0 218 10 6 596 7 0 291 2 6 18 4 0 132 0 0 43 16 0
West Trethellan Penstruthal Brewer Wheal Rodney 3 Wheal Rodney Wheal Caroline Rodrath Consols West Wheal Maria	*******	16 83 134 40 17 20	148 19 0 218 10 6 596 7 0 291 2 6 18 4 0 132 0 0 43 16 0
West Trethellan       1         Penstruthal       1         Brewer       1         Wheal Rodney       3         Wheal Kayle       1         Rodrath Consols       1         West Wheal Maria       1         Wheal Weath       2		16 83 134 40 17 20 12	148 19 0 218 10 6 696 7 0 291 2 6 18 4 0 132 0 0 43 16 0 31 2 0
West Trethellan       1         Penstruthal       1         Brewer       1         Wheal Rodney       3         Wheal Kayle       1         Rodrath Consols       1         West Wheal Maria       1         Wheal Weath       2		16 83 134 40 17 20	148 19 0 218 10 6 696 7 0 291 2 6 18 4 0 132 0 0 43 16 0 31 2 0

THE COPPERING SHIPS.—It is said that there are at the present time so many vessels destined for the Mediterranean and elsewhere being coppered at the por of Sunderland, that a difficulty is experienced in obtaining the requisite supply of copper from the manufacturer as quickly as is required to supply the demand—Newcastle Guardian.

THE LONDON STOCK EXCHANGE, AND THE NEW STOCK AND SHARE EXCHANGE.

The interest, which persons of most trades and profes in railway shares and stocks, from the late numerous formations of companies has caused the public attention to be drawn to the present mode of conducting business in the money market. Where formerly men in trade had, perhaps, no more than a dozen transactions in the course of their lives, they are now, from

business in the money market. Where formerly men in trade had, perhaps, no more than a dozen transactions in the course of their lives, they are mow, from necessity, forced to have them from day to day, which has caused many to investigate more closely the means through which these transactions have been conducted. The mode of doing husiness at the Stock Exchange has been discovered to be the cause of very considerable losses to the public, for the enrichment of a chosen few of monopolists.

It will be needless to enter into arithmetical calculations, which all may easily prove; but the public may rely on this statement, that they soldom deal on the Stock Exchange, unless to a disadvantage of 10 per cent, on the capital which their broker negociates—in many instances it amounts to 25 per cent, and in others to a still greater sum. In proof of this, they are referred to the current stock list, where it is no uncommon thing in the new companies to have a price of 10s. per share difference, or margin, between the buying and selling price, on shares which are only worth that, and shares have had buyers at 2s. 6d, 3s1, 5s.; commission, 2l. 10s.—cash, 33l. 15s. B sells 50 shares, at 12s. 6d., 31l. 5s.; commission, 2l. 10s.—cash, 33l. 15s. B sells 50 shares, at 12s. 6d., 3s1, 5s. So thing can appear more absurd than this, but it is real practice, and, in truth, most ruinous in consequences, leaving no room for wonder at the extraordinary fortunes some few Stock Exchange people have realised, in a short period, to the great detriment of the public.

In the New Stock and Share Exchange, all shares up to 30s. will bear a 1s. price—allowing a man to realise within 2l. 10s. of the amount he could purchase 50 shares for; and a list will be printed for circulation twice a day, containing all the bargains marked, obtainable at a reasonable price, singly or by quarterly subscriptions. Where merchants formerly-sent letters of credit, they now frequently send chares, and would do so to a much greater extent, were it not for the

JOYNT-STOCK COMPANIES - A return has just been Issued Coursuant to an order of the House of Commons, dated July 20, the return having been preorder of the House of Commons, dated say 20, the return having been prepared on the motion of Mr. B. Baldwin, on the 4th of May last), giving a list of all the joint stock companies which have been registered, provisionally or otherwise, under the provisions of the Act 7 and 8 Vic., c. 110; stating, in a tabular form, the style, title, and business of the company, the date of its formation or establishment, the date of registration, the names of the present directors, the nominal amount of capital, the amount paid up, the amount borrowed under Act of Parliament, with the title of such Act. This return is made up to the last of June last, and it contains—1. A list of existing companies, rerectors, the nominal amount of capital, the amount paid up, the amount borrowed under Act of Parliament, with the title of such Act. This return is made up to the 1st of June last, and it contains—1. A list of existing companies, registered as having been in existence previous to the 5th of Sept., 1844.—2. A return of provisionally registered companies, the formation of which was begun subsequently to the 5th of Sept., 1844.—3. A return of completely registered companies, as formed under a deed of settlement or subscription contract, in manner prescribed by the Act.—4. A return of directors of provisionally registered companies.—5. A return of directors of completely registered companies with the state of promains and the date of registration of the business thereof, the dates of formation, and the date of registration. The second list, of provisionally registered companies, contains the names of 1633 companies, together with their date of provisional registration, a description of the business, and the amount of capital. Among these companies is one of a peculiar character, which was provisionally registered the 19th May last, entitled "The British and Irish Granary Corn Mill Company and Provident Institution," the capital of which is set down as 35,006,000. Its objects are described as being "the purchase and sale of grain at fixed prices, cultivation of waste lands, encouraging the working classes, and offering Parliament the means of abolishing class taxation, by levying a duty on grain and flour sold by the company." The third list contains the names of 115 completely registered companies, giving the date of complete registration, descriptions of the character of the business, and the amount of capital. The fourth return gives the names of the directors of 1628 of the provisionally registered companies.

\*\*Coal IN INDIA.\*\*—Professor Ansted read, at the British Association, anotice

of the provisionally registered companies; and the fifth those of the directors of the 115 completely registered companies.

\*\*Coal in India, being an analysis of a report communicated to the Indian Government on the subject.\*\*—The coal districts of India described in this report are five in number, three in Northern India, and one in Cutch; whilst the fifth includes the province of Arracan, and the coast of the Birman Empire, near Tenasserim. The coal of Cutch is not of the carboniferous epoch, is of little importance, and unpromising. The great series of coal-fields of Northern India extends from Hoosungabad, and the Nerbudda river (lat. 28° N. long. 78° E.) in a N.E. direction for 400 miles, to Palamow; thence eastward, for 250 miles, to Burdwan, near Calcutta, and again northward, 150 miles, to Palamow; thence eastward, for 250 miles, to Burdwan, near Calcutta, and again northward, 150 miles, to Rajmehal, exhibiting a frequent out-crop of sand-stone, shales, and limestone, with occasional beds of coal of variable thickness and value. Commencing again on the flanks of the Garrew Mountains, near the Burhampootra, and on the banks of that vast river, similar beds, also containing coal, extend in a north-easterly direction nearly 400 miles. It is thus possible that there exists a range of carboniferous strata for 1000 miles along the base of the Himalaya Mountings, gradually becoming more distant towards the west.—1. The workable beds of the Burdwan coal district are 9 and 7 ft. thick respectively. There are 18 spots at which they are worked, which is usually at the surface, the deepest sinking is 190 ft. The distance from Calcutta is about 90 miles. The quality of the coal is very inferior to that of England.—2. Central district.—The coal has been worked near Palamow at four places: there are several beds of workable size, but the coal is associated with a good deal of iron, is heavy, and of inferior quality. The coal of the Nerbudda district (Benar coal-field) is about 350 miles from Bombay, andthe Nerbudda r period.—Col. Syrkis observed, that it was of importance to obtain coal for the proposed railways in India, especially as wood was beginning to be scarce in many parts. The report mentioned the occurrence of coal at 90 localities—most of them in a bed between the Nerbudda and Calcutta. With a trifling exception the whole of India south of this line was destitute of coal.—Mr. LYELL stated that he had lately examined the coal-field of Richmond, in Virginia—one of the most valuable in the United States. He had obtained fishes from that coal-field, which M. Agassiz referred to the Oolitie period; and the plants, which had been examined by Mr. Bunbury, presented an assemblage agreeing with those found at Whitby, in Yorkshire. The coal-field was known to be newer than the carboniferous period; and it contained one bed of coal, 30 ft. thick, from which gas had been made—and it was now becoming of great value. No estimate of the probable value of Indian coal could be formed by comparing it with coal of the same age in Europe. Sir H. De LA BECHE observed, that it was incorrect to suppose that, in other countries, the most valuable coal would be found in rocks agreeing in age with our own coal-measures. The Burdware coal appeared to be of the same age as the Australian coal, as there were plants was incorrect to suppose that, in other countries, the most valuable coal wo be found in rocks agreeing in age with our own coal-measures. The Burdue coal appeared to be of the same age as the Australian coal, as there were plat common to both.—Mr. Jurks pointed out the identity in direction of the gamitic hills of North-Eastern Australia with those of the Malay Peninsula; a the occurrence of coal, at an intermediate point, in Borneo.—Dr. FALCONER os sidered the Burdwan coal-field peculiar:—its plants were all unlike those Europe; and it contained neither disctyledonous nor coniferous wood. It thought it might be older than any of our coal-fields.

GLASS-WORKS IN CANADA.—A glass manufactory, established at St. John has been in operation something more than a year. It has two furnaces, a can turn out 100 half boxes of glass a day. Sand, used in the manufacture glass, is said to be found in abundance at Beanharnois and at Vaudreuit.

Original Correspondence.

ON ECONOMISING STEAM BY EXPANSIVE ACTION.

Sir.—In the Number of the Mining Journal, of December 27, 1845, you inserted diagrams and a description of a valve of mine, well adapted, in conjunction with the twin cylinder engine, to economies steam by its expansive action. The diagrams hereto annexed show a still further improvement for such a purpose, as we are thereby enabled to dispense with the valve-box, and adjust the pressure acting on the back of the valve to that required to keep it to its face, thereby removing the objection of too great friction and wear in the face of the valve, which high pressure steam, say of 100 lbs. to the square inch, has a tendency to produce. Three weeks ago, it was my intention to register the valve under our notice; but, after several delays, I was ultimately informed, it could not be received as one design; it is, therefore, my wish, through your kindness, to publish it. As my hitherto experience impels me to the conclusion, that patents, in such readters as relate to the steam-engine, are a "snare and a delusion," as they render it more imperative on the inventor to strugglo onward against the crushing influence that is brought to bear against him, and which has led some of the most wary, who have had ample opportunity of observing the tortuous and insidious means used to suppress or obstruct such matters, to exclaim—Does the inventor think to bring out such a thing in his lifetime? Another class of persons would have us be resigned to our fate—for, say they, it is Providence that appoints the trial—to me this appears adding insult to injury, as the matter does not admit of a doubt, that either I have not used the powers my Creator bestowed upon me in a proper and houses manner, or else I have been a humble agent under him for the constant manner. ON ECONOMISING STEAM BY EXPANSIVE ACTION. they, it is Providence that appoints the trial—to me this appears adding insult to injury, as the matter does not admit of a doubt, that either I have—not used the powers my Creator bestowed upon me in a proper and honest manner, or else I have been a humble agent under him, for the more wide extension of those inexhaustible resources which he has placed at our command, whenever we rightly employ those powers he has endowed us with, and which minister at once to our own happiness and to that of all mankind. If such is the end and aim of energies thus employed, I fear it is worse than mocking us to ascribe the punishment to our Creator; for, in such a case, not only do men inflict the punishment, but, at the same time, set themselves to oppose the laws of Providence. The injury men in this manner have too frequently brought upon individuals, and their race, at length become so hideous and extensive, that they have always been prone, in such cases, to ascribe it to Providence; but, if we discriminate justly between the suffering, the cause of which could be properly ascribed to Providence, and that which man brings upon his fellow beings, by means which are the progeny of cuvy, of ignorance, or of a narrow selfishness, we shall perceive that the influence which providential chastisements has on us, is that of a wise and paternal Creator, which would arouse us from our indolence, reclaim us from our crors, and lead us to that we desire, which is happiness, by bringing us to see the harmony of his laws, the unity of his dispensations, and the constitution of our own minds—that he has made nothing in vain, but that all conspire to raise the individual, and advance the well-being of meu in general. Whatever mars or retards this grand design, as exhibited in Nature and in Providence, is of man's doing; and, fortunately, here ends his power to do evil, in thus delaying the possession of yet greater good; as to destroy, or indefinitely retard, the increase of design, as exhibited in Nature and in Providence, is of man's doing; and, fortunately, here ends his power to do evil, in thus delaying the possession of yet greater good; as to destroy, or indefinitely retard, the increase of good to mankind, he cannot. When we contemplate that to the Great Being, who made the universe, "a thousand years are but as yesterday," how impotent and temporary does man's infringement of his benevolent designs become; and how fixed may be the confidence of all who wish and strive for the good, the true, and the useful, that their efforts will not finally prove in vain. That we cannot avoid feeling acutely, when we would do good, and men obstruct all our efforts, I wish not to conceal; yet when our individual suffering is placed side by side with the retardation of advantages in which millions may participate, it then loses its personal bearvantages in which millions may participate, it then loses its personal bearing, and would seem deserving the consideration of thinking men.

The following description, with the diagrams here given, will, I trust, render intelligible the form of valve and mode of action:—Figure 1 is a

Fig. 1. F f d

plan of the steam ports; figure 2 is a section through B, and of the valve through k (see figure 5); figure 3 is a section through C, and of the valve through i (see also figure 5); figure 4 is a section of the passages through A, A, showing the manner the passages cross each other, so as to bring the steam from the bottom of the small cylinder into the top of the large cylinder; whilst, at the same time, the steam from the boiler enters through the port a, and hollow of the valve k, and the passage b (see figures 2 and 3), into the top of the small cylinder.

This crossing of the passages is not required, except when both small

the port a, and hollow of the valve k, and the passage b (see figures 2 and 3), into the top of the small cylinder.

This crossing of the passages is not required, except when both small and large pistons move in the same direction—if they move in opposite directions, then the passages are as ordinary. I here remark, that the same letters refer to the same parts in all the figures: a is the steam port communicating with the boiler through the branch a'—c is the steam port communicating with the bottom of the small cylinder—b, that which communicates with the top of the same—e, the steam port which communicates with the top of the large cylinder—and d, that which communicates with the bottom of it—f, the exhaust port communicating through the branch f' with the condenser or atmosphere. In figures 2 and 3, with reference to figure 5, which shows the face of the slide valve, is shown its mode of action for both cylinders; in figure 2, it is seen that a, b, and b, communicate with each other, and also with the boiler, and top of the small cylinder, whilst h and c is seen to communicate with each other, and with the bottom of the small cylinder—so also does the same h (in figure 3) communicate with e, and with the top of the large cylinder. We have only here to conceive that steam is rushing from the lower side of the small piston, through h, and the passage e, to the top of the large piston; and that, at same time, steam is rushing from the boiler, through a and k, and the passage h, to the top of the small piston; and that, at same time, steam is rushing from the boiler, through a and k, and the passage h, to the top of the small piston; and that, at same time, steam is rushing from the boiler, through a and k, and the passage h, to the top of the small piston; and that, at same time, steam is rushing from the boiler, through a and k, and the passage h, to the top of the small piston; and that, at same time, steam is rushing from the small piston by steam direct from the boiler, and the large one by that whick is

the communication with the vacuum in the condenser, and with the bottom of the large piston. Thus, by this simple contrivance, is one valve made to serve both cylinders, the valve box dispensed with, the pressure on the valve face adjustable at pleasure, and one of the most vital parts of the steam-engine at all times accessible: j is seen in figures 2 and 3 to be resting on the dead face, but on the reverse action it communicates with b and d, whilst h rests upon the dead face at the opposite end of the cylinder. Figures 6 and 7 show another arrangement; figure 6 is a section through B, showing the small cylinder cut through, and the large one lying behind it: g g is a section of the valve which, as here seen, is at the middle of the stroke in this arrangement; a and a are two ports which communicate with the boiler—all the other letters referring to the same parts, as in the former description, further explanation of them is needless. Fig. 7 is a cross section through A, showing the manner in which the pressure is communicated through a spring, which pressure is adjustable at pleasure, by the screw-pin passing through the brackets—two of which completes the arrangement. Figure 8 shows its application to single cylinder engines,—g is a section of the slide valve; a and a, steam ports communicating with the boiler.—T. Craddock: Birmingham, Oct. 6

Mr. JOHN SCOTT RUSSELL'S NEW SYSTEM OF SHIPBUILDING.

Sir,—In the reports of the Southampton meeting of the British Association, there is a long account of a new system of shipbuilding, proposed by Mr. John Scott Russell; I have not been able, from the limited nature ciation, there is a long account of a new system of shipbuilding, proposed by Mr. John Scott Russell; I have not been able, from the limited nature of the reports, to comprehend the entire theory propounded by that gentleman, but have gathered quite sufficient of it, to convince me, as a nantical man, that neither the reverend gentleman in the chair, or Mr. Russell, understand what is required of a vessel intended to meet, and successfully contend with, the angry billows, and terrific blasts of the ocean. Experiments tried in the still and confined waters of a canal can give but a slight idea of what is necessary to enable a vessel to ride triumphamly and unharmed over the crest of a wave, when beating against a strong head sea; also, a boat passing swiftly through the waters of a canal, is unable to clear her way as she would in open and unconfined water; because the displaced water, thrown aside, communicates the pressure to the surrounding porher way as she would in open and unconfined water; because the displaced water, thrown aside, communicates the pressure to the surrounding portions of fluid, which, pressing on the sides of the canal, react on the displaced portions—thus, preventing their dispersion, cause the accumulation of the "high wave," described by Mr. Russell; and, although this wave may not be so apparent when the bow is narrowed, and the broadest part thrown farther aft, yet, wherever the broadest part of a vessel is, there will be the greatest amount of resistance to her progress—the amount of which will always increase with the square of the ship depends much, besides the resistance to her progress through the water; on its position entirely depends the facility with which she will answer her helm, it being the fulcrum on which all her motions and evolutions are performed, and if placed where Mr. Russell proposes, one-third from aft, the power of the lever on which the rudder acts would be so insufficient, being only one-half the length of the counteracting leverage, before the fulcrum or broadest If placed where Mr. Russel proposes, one-tura from air, the power of the lever on which the rudder acts would be so insufficient, being only one-half the length of the counteracting leverage, before the fulcrum or broadest part, that the vessel in a sea-way would neither steer, stay, nor ware—also, from the narrowness and want of buoyancy in her bows, instead of rising on the opposing wave, when close hauled against a high sea, she would cut right into it, burying herself in the water, and making it impossible for any person or thing to remain on deck. Besides this, tile position of the foremast, and the broadest part of a ship, must have a reference to each other—the broadest part, as I have already stated, being the fulcrum on which the forces governing her motions in the water act and react on each other, so is the foremast with the canvas set on it, the centre, on which the whole of the canvas spread throughout the vessel is balanced; and it is absolutely necessary to have a connection between it and the broadest part of the vessel, in order that the canvas set on the main and mixen-masts may be trimmed, so as to act with the rudder in keeping the ship's head to the wind; also, in the act of staying, an evolution it is absolutely necessary to perform in the very shortest time, the position of the foremast, and broadest part of the ship, influence the manner in which the vessel will come round, the rudder acting on the leverage abaft the broadest part, whilst the sails on the main and mizen-masts act on the head sails—those on the bowspiri, the jibs, and staysails, being rendered nugatory by letting on the bowsprit, the jibs, and staysails, being rendered nugatory by letting

go the sheets.

I could point out numerous other reasons against placing the broadest part of a ship, as proposed, on the wave system, also decided reasons for not having a "full water line abaft;" but have already exceeded the extent I at first intended, and must, therefore, conclude, by requesting you will insert this protest of an old sailor, against the interference of men, who do not understand what is required of a vessel constructed to resist the action of them and temporal and at the same time be nimble and active under of storm and tempest, and at the same time be nimble and active under the canvas.—[I enclose you my card and address.]

\*\*NAUTICUS.\*\*

\*\*London, Oct. 7.\*\*

London, Oct. 7.

THE "GREAT BRITAIN" STEAM-SHIP.

Sir,—The position of this extraordinary vessel has become the subject of general conversation and regret with all parties connected with the commercial interests of Great Britain; and your Journal, being a channel of communication to a vast number of scientific, as well as commercial men, I would beg to submit a suggestion, which I think might be rendered useful, and improved upon by those connected with that ill-fated ship. There are many persons who are apt, and, in private conversation, would adopt measures for the removal or floating of the vessel, without once attempting to press their ideas on those interested in the matter. The thought has suggested itself, that whilst we abound with nautical men of science, and engineers of talent, that, if a reward were offered publicly for the proffered services of such, that many suggestions would be submitted for the immediate rescuing the unfortunate vessel. The amount of insurance effected by the company must be serious, and the loss sustained by the proprietors surpass even that amount. I would, therefore, suggest the propesal of a sum sufficient to amply repay the successful effort, to be paid to such person or company who would undertake the object—the insurance office to pay one moiety, and the directors the other, or each in proportion to the amount they may be interested. There should be no preference given to particular parties; but all proposals received, and an early determination given for the trial to that party whose proposition should be mest feasible. Thus, would then be creating a desire of emulation among men of science and ingenuity; and, perhaps, draw out some talented man, who would, perhaps, otherwise, be "born to blash unseen." I perfectly well recollect Sir, terms being submitted to the directors for floating her out of her imprisonment in the Bristol Docks, without removing the piers; but this was rejected—most probably because it would detract from the talents of their eminent engineer. I su THE "GREAT BRITAIN" STEAM-SHIP.

IRON PIPES-SPIRAL RINGS. SIR,—We observe, from time to time, in the newspapers, that considerable damage is done by the bursting of iron water pipes, Would they not be considerably strengthened by casting a spiral ring round them. I some time since demonstrated, that the rending pressure on every point of the circumference was equal to half the whole pressure around the pipe.

COMPASS VARIATION—IRON SHIPS.

SIR—Among other causes, the loss of the Great Britain has been ascribed to variation of the compass by attraction, when on certain courses. If so, would not having a compass in the bow as well as astern, and halving the variation of each (as compared) in opposite directions, give the true course?

A. T. J. MARTIN. compass variation—IRON SHIPS.

CARBONIC OXIDE. CARBONIC OXIDE.

SIR,—You say, in a paragraph, that a person has taken out a patent for the application of carbonic oxide, "for illumination and heating," from anthracite. I beg to observe, that carbonic oxide is calculated for neither the one nor the other. Ignited carbonic oxide burns with a pale blue flame, with the owner and the temperature visibled by the content of the carbonic oxide burns. the one nor the other. Ignited carbonic oxide burns with a pale blue flame, with very low illuminating power; and the temperature yielded by the flame, is far below that of any inflammable gas that I am acquainted with —I am now speaking of carbonic oxide as such, and not of carburetted hydrogon, which is an entirely distinct gas, though the former may be made an auxiliary to the manufacture of the latter. Carbonic oxide is, when inflamed, extremely evanescent, and a most subtile poison, acting promptly on the brain, as a narcotic. It is the last flame which makes its appearance when common coals become entirely red-hot; it is seen in ignited coke, charcoal, and anthractic; and is best obtained, chemically, by adding sulphuric acid, to crystallised oxalic acid, in a glass retort, and applying heat; the gas remains permanent over water.

J. MURRAY, Portland-place, Hull, Sept. 28,

ON THE IRON MANUFACTURE OF GREAT BRITAIN. Mr. G. R. PORTER (of the Board of Trade) presented an elaborate report on this subject to the late meeting of the British Association, which he had prepared at their request.-Having called attention to the enormous deman ron consequent on the general and simultaneous construction of railways in

iron consequent on the general and simultaneous construction of railways in England, on the continent, and in India, he said it was important to consider how that demand may be met; and also how, on the cessation of that demand, which must be temporary to a great extent, the rainous depreciation of capital and suspension of employment, consequent on the change, may be averted. In 1788, the whole quantity of pig-iron made in England and Wales, amounted to no more than 61,300 tons; of which 48,200 were made with coke of pit-coal, and 18,100 from charcoal; in the same year, the amount raised in Scotland was 7000 tons. In 1796, the quantity, ewing to Watt's improvement of the steam-engine, was nearly double, being—

England and Wales.

108,993 tons
Sectiand.

16,886

Total ......125,079 tons. 

MUSHET'S BEACK-BAND.—Mr. BALD read a paper, at the British Associations on the "Mushet Band," commonly called the Black-band Ironstone of the coal-field of Scatland.—This band of ironstone was discovered, about 40 years ago, by Mr. David Mushet, of the Calder Iron-Works, near Glasgow. It had been frequently passed through; but was thrown away as rubbish, till Mr. Mushet ascertained its value—when extensive mines were agened for working it. Two bands of this ironstone are found in the great coal-fields of Langak—one 14 inhick; the other, which is 78 fms. lower, is 16 in. thick. The ironstone of the Mushet band is much more easily reducible than the ordinary dry ironstone—and requires less fuel. In Scotland it appears to be co-extensive with the coal formation. In South Wales, also, it is found; but there is little of it in England or Ireland. Fifty years ago therewere only five iron-works in Scotland, comprising above 15 blast furnaces, which, together, produced 540 tons of iron per week. There are now 100 blast farnaces in action, which produce 12,600 tons per week, or 624,000 tons in theyear—the value of which, at 31, per ton, is 1,872,000. This great increase Mr. Bald attributed to the discovery of the Mushet ironstone, and to the introduction of the hot-blast. He also mentioned that Mr. Mushet, who is n w in his 86th year, has published a volume on the manufacture of iron, containing an analysis of every ironstone and ore he could obtain; and heaver would at least, he recognized in scientific societies. ture of iron, containing an analysis of every ironstone and ore incential and he trusted his labours would, at least, be recognized in scientific societies, although the pecuniary advantages arising from his discoveries hadfallen into

IRON-WORKS IN CANADA. — One of the most extensive manufactories in Canada East, is the St. Maurice Iron-Works, in the rear of Three Rivers. The iron ore found there is not only abundant, but is of the best description. The hammered iron manufactured from it is quite equal to the best English iron; and the stoves cast from it are considered superior to the best Scotch castings. Although we have no statistics at hand to guide us in our estimates of the amount of iron manufactured there, yet we know that many thousands of tons are annually turned out, even under the very great disadvantages with which the forges and blasts are worked. The system hitherto adopted and carried out there is of the most primitive description; but since a change is about taking place of proprietors, we may naturally look for an improved method being adopted, whereby a much larger amount of manufacture will be produced at a great reduction in price. Some idea may be formed of the magnitude of these works when we state that from 1200 to 1500 mouths are dependent upon them.

MINERAL WEALTH OF THE COUNTEY.—In the course of a lecture, delivered works when we state that from 1200 to 1500 mouths are dependent upon them.

MINERAL WEALTH OF THIS COUNTRY.—In the course of a lecture, delivered to the general classes of King's College, by Mr. Tennant, on mineralogical geology, the lecturer stated that the annual value of the mineral produce of this country, amounts to about 25,000,000/.—of this, 9,109,000/. from coals; 8,400,000/. from ino; 1,200,000/. from copper; 929,000/. from left 400,000/. from mailt; 390,000/. from tin; 60,000/. from manganese; 35,000/. from silver; 22,000/. from alum; 8000/. from zinc; and 25,000/. from various other metals, as antimony, besmith, arsenic, &c.

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THE RAILWAY SYSTEM-MR. THOMAS GRAY, X In the history of scientific research and discovery, it is occurrence to find individuals who have paved the way, by their investiga tions and inventions, to the comforts, amelioration, and improvement of the human family, slighted by their contemporaries, repulsed by Government, and even treated as madmen by society at large, until others more for-tunate, by taking advantage of the gradual development of the public mind, for the permission of innovation on established customs, step forward and reap all the advantages of ideas first promulgated by others. We have, in our last and present Number, recorded the pleasing fact, that Dr. Clanny, the original suggestor and introducer of the miners' safety lamp, was, by the appointment of a committee at Newcastle, likely to receive some re-muneration for his personal sacrifices in the cause of humanity; and it gives us great pleasure to find, that a meeting has been held in Exeter, most muneration for his personal sacrinees in the cause of finmanity; and rives us great pleasure to find, that a meeting has been held in Exeter, most influentially attended, for the purpose of raising a subscription for Mr. Thomas Gray, the undoubted originator of a national plan for railroads, not only in England, but all over Europe. The evidence that Mr. Gray is entitled to such distinction, will be found in the observations of the several speakers.—The Mayor (C. Button, Eq.) was called to the chair, and observed, that he thought the eminent services of Mr. Gray, in first directing attention to the practicability of establishing general railway communication, were deserving of a substantial testimonial, and he hoped the appeal would be responded to by the public generally.—Mr. R. T. Head, in moving the first resolution, to the effect, "That all parties interested in railways, owe a debt of gratitude to Mr. Thomas Gray, as the projector of the general system of direct railway communication through this kingdom, which be published in 1820; and as he has been some years resident in Exeter, it is thought desirable that such testimonial should emanate therefrom." He understood Mr. Gray's position to be this—railways were not a novelty when he first published his book; but it was the systematic application of railways, as suggested by him, which constituted the benefit to mankind at large. As long since as 1680, wooden rails were in use in the mining districts of the north of England. In 1738, iron rails were first introduced in the collieries at Whitehaven, and from that time were in general use in Wales, Scotland, and Iroland; but, for the ideas of Mr. first introduced in the colleries at Whitehaven, and from that time were in general use in Wales, Scotland, and Ireland; but, for the ideas of Mr. Gray, we might have gone on to this time, or even 100 years longer, without making the application he suggested of them. In 1811, Mr. Blenkinsopp obtained a patent for a steam locomotive engine, which he used in the colliery of Middleton, at Leeds; from that time, others had used them, adopting his plans, and Mr. Robert Stephenson followed with some improvements. In 1815, however, Mr. Gray, being on a visit to his native city (Leeds), had the curiosity to go and see this engine, when it immediately occurred to him that whathe there saw was a mere miners' tool, which might be made applicable to the wants and necessities, the comforts and laxuries, of life. He communicated with Mr. Blenkinsopp, and received only discouragement—that gentleman saying it would be madness—that the public would laugh at him—and that he would spend his time and money to no purpose. The idea, however, had got too firm hold on his mind to be easily rooted out: visiting Holland, he mentioned the subject to a friend (Mr. Wilson, who published a pamphlet on the subject), and afterwards showed him the manuscript, of a pamphlet subsequently published in 1820, fully explanatory of the principle; and, at that period, the idea had never been conceived by any other party. He, afterwards, presented petitions to Lord Sidmouth, Sir Robert Peel, and sent circulars to the merchants of Liverpool, Manchester, Leeds, and London, arguing that his plan should be first tried between the two former places, and, in 1830, it was carried out. From 1820, up to that time, he persevered: and it was doubt the party of the preservered: and it was doubt the party. in general use in Wales, Scotland, and Ireland; but, for the ideas of Mr. chants of Liverpool, Manchester, Leeds, and London, arguing that his plan should be first tried between the two former places, and, in 1830, it was carried out. From 1820, up to that time, he persevered; and it was, doubtless, to this that the establishment of railways took place, although, during that period, he was generally spoken of as a madman.—Other speakers supported Mr. Head's remarks, and Mr. Wilcox having seconded the resolution, it was carried with acclamation; and the meeting having been addressed by Messrs. Daw, Toombe, Huxham, Kingdon, the Rev. O. Owen, and other gentlemen, it was decided to form a central committee to carry the object into effect, and to promote the formation of district committees in all parts of the kingdom. Mr. Toombs was appointed treasurer; Messrs. May and Bidwill, secretavies; and all the Exeter banks requested to receive subscriptions.—Mr. Wilson has just published another edition of the pamphlet above alluded to, in which he observes—"I learn, with deep regret, that a man, such as I have described, is left to vegetate how, and best, he may in obscurity, and with means no less precariousthan scanty, in the midst of those magnificent works which have arisen, and are still rising, around him, and of which he can truly say, 'I am the creator of all.' In my conviction, it is the bounden duty of the Government to repair its own neglect; and the obligation on railway companies and their proprietaries my convenient, it is the bounders duy of the coverment of repair is own neglect; and the obligation on railway companies and their proprietaries is no less stringent—every pound invested, and every dividend received, bears the coinage of Thomas Gray." It is never too late to requite an obligation, and heartily do we wish this first step at Exerce, may lead the way to such solid remuneration as his genius and perseverance, though so long hid through neglect and cupidity, deserve.

THE PROJECTED RAILWAYS-PATENT METALLIC SAND,-We are glad to find that, in the construction of the numerous tunnels and embank-ments, this article is exciting attention on the part of our eminent engineers. Indeed, when we reflect on the chances of inferior material being used in ments, this article is exciting attention on the part of our eminent engineers. Indeed, when we reflect on the chances of inferior material being used in the carrying out of the many gigantic railway works now in progress, and the haste in which some of them are completed, we cannot help expressing our belief, that it is a matter of the highest importance to the public themselves, to see that nothing which can add to their safety is neglected. Railway tunnels, bridges, and viaducts, are things which should be built to last for centuries; but, from the late failures that have occurred on the North British and other railways, we fear they are not constructed with such materials as public confidence and safety have a right to demand. Nothing can be more dangerous in such works than inferior mortars and cements—hence the great public value that attaches itself to any indestructible material. The patent metallic sand appears to be very similar to the volcanic pozzolano, imported from Italy; but the high price of that article, and the difficulty of procuring it, has almost prohibited its employment in the engineering works of this country. The metallic sand is said to contain more silica and iron than pozzolano, and, consequently, is more indurating, and it binds better from its peculiar granular form, and sharpness of its angles. With blue lias, or greystone lime, the metallic sand enters most readily into combination; and although a lime may be in itself hydraulic, and in subaqueous works possess considerable merit, it is a very erroneous, although a very common, conclusion, that because a lime is hydraulic, and resists the action of water, it is sufficiently durable and strong to defy the effect of atmospheric changes. Blue lias lime, although proof against the former, is not calculated to stand the combined influences of both. The admixture of metallic sand has been proved to impart to it a hardness and induration, of which, in itself, the lime is incapable. The action of damp promotes oxidisation, and the decomp action of damp promotes oxidisation, and the decomposed particles being disseminated in the surrounding bed, gives to it a flinty hardness and externe density, and which time and exposure only tends to increase. This alone, we feel bound to admit, is sufficient to recommend the article of metallic sand to the most serious attention of engineers employed in the construction of works, where a mortar of such hardness, durability, and almost entire in compressibility, is necessary. As an external stucco, the metallic sand, in admixture with blue lias lime, resembles the best Portland stone—requires, therefore, neither colour nor paint,—and, from many years' experience, is found to be quite unaffected by frost or wet, and entirely free from vegetative cracks and blisters, to which Roman cement is continually liable.

Law or Resistance to Locomorion.—At the recent meeting of the British Association, a paper was read on this subject by Mr. Scott Russell, which, to those who have not studied the subject, must be curiously interesting. It is a natural supposition, that the greater the velocity of a body in rapid motion (such as a railway train), the greater the proportionate atmospheric and tractic resistance it has to encounter; but the experiments of Mr. Russell and others—which have extended over six years, and have been made upon various lines—completely overturn such a notion. It is shown, for instance, that, while the resistance in pounds per ton to a train travelling at the rate of 31 miles per hour is as 23-30, the resistance at 32 miles per hour is as 23-30, the resistance at 32 miles per hour is as 21-70, or above 21bs, per ton less than that opposed to a train going at 31 miles per hour. The amount of resistance at 41 is nearly the same as that at 51 miles per hour, or about 264 hs. per ton. Although these figures are given as only an approximation to correctness, yet similar proportions as to resistance to various velocities are ascertained to be correct. by a formula of calculation which produces, if not the same figures, nearly the same proportions.

Penyndarker lines—Works.—Mr. James Jones, the mill-manager, has been presented with a superb watolt guard, of the value of 10 guiness, by the workmen under his care, as a mark of the esteem in which they hold him.

KELECTRIC TELEGRAPHS.—M. Arago has communicated an important paper to the Paris Academy of Sciences, on some of the effects of lightning upon the electrical telegraphs in the United States of America, observing that the facts had been communicated to him by M. Eben Mariani, of Brooklyn, and were entitled to confidence. On the 29th of April of the present year the lightning fell on the wire of an electric telegraph at Lancaster, without melting ngateing fell on the wire of an electric telegraph at Lancaster, without melting or breaking it. In the room, however, where the electric battery, by which the line is worked, is placed, a noise was heard like that of the discharge of a pistol, and several sparks were seen. On the 18th of May, a telegraph wire was broken by lightning, and several of the posts supporting the line were split. In this case there was a report equal to the discharge of two or three muskets. On the 3d of June, the wire of the telegraph from Washington to Baltimore was so broken, that the communications between the towns were suspended for several hours. On the following day, during another thunder storm, the wire was not snapped, but at every stroke of thunder the hands of the telegraphic instrument moved as if the battery was at work.

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to, the formation of the Tontine, and preparation and execution of the deeds for effecting the saine.

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ON THE SECRET INFIRMITIES OF YOUTH AND MATURITY,
With 25 coloured engravings.

Just published, sixteenth thousand (in a scaled envelope), price 2s. 6d.; or post-paid to
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SELF-PRESERVATION: A Medical Treatise, on Marriage, and
on the Secret Infirmities and Disorders of Youth and Maturity. any address, for as 6.0, in postage stamps, or Post-office order, and on the Secret Infirmities and Disorders of Youth and Maturity. Hustrated with 28 coloured plates on the anatomy, physiology, and disease of the univary and reproductive organic, explaining their various structures, uses, and functions, and the induries that are produced in them, by solitary habits and other excesses. With practical observations on the treatment of nervous debility, local and constitutional weakness, ayphilis, articles and the treatment of nervous debility, local and constitutional weakness, ayphilis, articles of not other disease of the utreful. By AMUEL LA MERT, consisting surgeon, 8, Bodfordstreet, Bedford-square, London, Matriculated Member of the University of Ediphurgh, Honorary Member, of the London Hospital Medical Society, Licentists of Apothecaries Holl, London, &c.

"The anthir of this singular and talented work is a locally qualified medical man, who has eridently had considerable experience in the treatment of the various disorders, arising from the follows and facilities of early indiscretion. The engravings are an invaluable addition, by demonstrating the consequences of excesses, which must set as analyticary warning to youth and maturity, and by its perusal, many questions may be satisfactorily replied to, that admit on appeal, wene to the most confidential friend. "A.F. Prublished by the ashbor; and may be had at his residence; also from S. Gilbert, 82, Paternister-taw, Hanassy and Co., 65, Oxford-street, Estacio, 32, Relaborne-street, Quartent, Gordon, 146, Leadenhall-street, London; Newton, 18, Church-street, Livespoel; and all bookstellers.

At home for consultation daily, from nine till two, and from five till eight; and all lateses, immediately replied to, ill constanting the few of 21, for advere, &c., —9, Bedford-street, Dedford-square, London.

JISTER DALE IRON COMPANY .- TENDERS FOR LISTER DALE, IRON COMPANY.—TENDERS FOR LIAMS.—The WORKS of this company are now in full OPERATION at NISTER DALE, near Hachenburg, in GERMANY, and at SWINTON, near Rotherham, YORK-SHIRE; and the directors, being empowered by the Deed of Settlement to raise additional capital for extension of the works, give Notice, that they are prepared to RECEIVE TENDERS for LOANS, on DEBENTURES, at \$5 per cent. interest.—The holders of the debentures will have the option of converting the same into shares, at any time within three years, and the interest will be paid half-yearly, at the company's offices.

For further particulars, apply at the offices of the company, No. 10, 01d Jewry Chambers, London; or to the company's solicitor, Mr. George Hume, No. 10, Great Jamesstreet, Bedfurd-row, London.

By order of the board,

HENRY SOALE, Managing Director,

F. W. EMERSON, Clerk.

CALEDONIAN RAILWAY.—TWENTY-FIVE POUNDS SHARES.—The directors hereby give notice, that the TWENTY-FIVE POUNDS BHARES, in the CALEDONIAN RAILWAY COMPANY, are now in COURSE of RE-GISTRATION; and they request those parties who have not yet forwarded their serip, to do so without delay.—By order, J. BUTLER WILLIAMS, Secretagy, 122, Princes-street, Edinburg, October 1, 1846.

CALEDONIAN EXTENSION RAILWAY,-Notice is ALEDONIAN EXTENSION RAILWAY.—Notice is based of the assertion of the assertholders of this company, held to-day, at Gibb's Royal Hotel, Prince's-street, Edinburgh, the sum of ONE POUND FIFTEEN-SHILLINGS per share will be RETURNED to the HOLDER'S of SCRIP, on and after the 18th day of October next; and the holders of scrip are requested to deliver, or transmit, their scrip certificates to the secretary, at 122, Prince's-street, Edinburgh, tour days prior to the day of payment—each of such certificates to be indorsed with the names and addresses of the holders of such scrip.—Bank cheques will be delivered, or, if requested, transmitted by post, to the holders of the scrip certificates, four days after their receipt.

By order of the Sorie.

JOHN MARR, Secretary, 122, Frince's-street, Edinburgh, Sept. 23, 1846.

AMBRIAN & ND GRAND JUNCTION RAILWAY
COMPANY.—Refice is hereby given, that a MEETING of shareholders in the
above-mentioned commany will be HELD, in pursuance of the 9th and 10th Vic., c. 28, at
the British Hotel, Cockspur-street, in the city of Westminster, on Monday, Oct. 12, 1846,
at Eleven o'clock in the forenoon, for the purpose of determining whether the said company, or partnerships, shall be dissolved.
Every person claiming to vote at such meeting must bring with him, and produce at
such meeting, his scrip, or bankers' receipts, or duly appoint a proxy, in the manner described by the said Act, to represent him at such meeting, and to produce ant scrip, or
bankers' receipt, on his behalf.—Dated this 29th day of September, 1846.

Signed, on behalf of the committee,
EDWARD HALL (being a member of the same).

CAMERON'S COALBROOK STEAM COAL & SWANSEA

AND LOUGHOR RAILWAY COMPANY— (REGISTERED.)—Notice is hereby
given, that, in pursuance of this company's Railway Act, 1846, the FIEST GENERAL
MEETING of shareholders of the company in regard to the railway, will be HELD at their
offices, Moorgate-street, London, on Wednesday, the 14th day of Cotober next, at Eleven for
Twelve at noon precisely, for the purposes expressed in the several Aots of Parliament incorporating the company. Original holders of certificates of shares already registered do
not require to reregister their shares; but parties who hold their certificates of shares by
transfer, cannot be admirted to attend and vote at the meeting, unless such transfer shall
have been registered previously to the meeting.—Dated this 21st day of September, 1966.

By order of the directors, A. C. HOWDEN, Secretary.

RMAGH, COLERAINE, AND PORTRUSH RAILWAY.

—At a Meeting of the shareholders of the Armagh, Coleraine, and Portrush Railway Company, called upon a requisition, pursuant to the provisions of the Act 9 and 10 Vic., cap. 28, and, pursuant to notice, duly advertised according to the said. Act, held at the Loudon Tavern, in the city of London, this 2d day of October, 1846, GRIFFIN CURTIS CALT, Esq., one of the members of the provisional committee, was, within one hear of the time appointed for holding such meeting, duly elected chairman; and, having taken the chair, James Strick, William Palmer, and Thomas Calverwell, tirce shareholders in the said company, were immediately afterwards elected scrutineers by the meeting, to verify and take the votes of the shareholders entitled to vote under the said Act, and to cast up and declare the same.

That the Armagh, Coleraine, and Portrush Railway Company be disselved.

The chairman put the question from the chair, and the said scrutineers proceeded to take and record the votes thereon; and its appearing, by a certificate in writing under their hands, that persons representing 11,625 shares were present and voted, and that 1660 votes were in favour of the dissolution, and 2965 votes were against the dissolution—ahowing a majority of 3305 votes against the dissolution—ahowing a majority of 3305 votes against the Massellare, JAMES STRIDE, WILLIAM PALMER, Scrutineers.

London Tavern, Oct. 2, 1846.

PROSPECTUS OF THE RMAGH, COLERAINE, AND PORTRUSH RAILWAY

NILLIAM PALMER, Scrutineers. THOMAS CULVERWELL, SETURINEERS, COLVERWELL, PROSPECTUS OF THE PROSPECTUS OF THE COLLEERY, GLAMORGANSHIRE.—2000 shares, at £10 each.

This valuable colliery is situate in the parish of Lianwonno, in the county of Glamorgan, in the centre of the South Wales Mineral Basin, contiguous to New Bridge, 12 miles from Cardiff; and the Taff Vale Islalway, from Cardiff to Merithyr Tydvil, runs through the property—granted, by a lease of 360 acres, for the term of 31 years. The property is surrounded with profitable collieries—one of which (Mr. Coffin) adjoins this, and supplies the Great Western Railway. Three veins are found to be throughout this property—the Goffion Vein, 34 ft. thick—and Coffin's Vein, 4 ft. thick—and Coffin obtains the fire of the search of the fire of the fire of the part of the part of the part of the part of the constant of the part of the part of the constant of the fire of the part of the part of the constant of the part of the part of the constant of the part of the p COST OF PRODUCTION AND CARRIAGE TO SHIPPING PORT.

1. The undertaking is divided into 3000 shares. One-half of these are retained by the proprietors as free shares. For the purpose of providing an ample working capital—1000 shares, are open to the public, at £10 each.

2. All transactions of the company to be conducted on the Cost-book Principle.

3. That the colliery consist of 2000 shares, representing £10 each; £5 to be paid down, and the remaining £5 als months from the time of subscribing—if not paid within such period, the shares shall be forfeited for the benefit of the general proprietary.

4. That all moners belonging to the company be deposited in the West of England Bank & Cardiff, to the credit of the company, in the names of two trustees, and drawn therefrom by cheques, signed by one of them, and counter-signed by the manager and purser, in such sums only as will cover the current monthly costs; that all materials, labour, and bills, may be discharged at the end of overy month, and that wouchers be produced to that effect.

5. That a general meeting of the shareholders be held quarterly, on the coiliery, of which due notice will be given by circular from the purser, when all matters relating to the company's affairs will be detailed.

6. That the operations, and the general matters appertaining to the company's interest in the colliery, be conducted by the manager and purser, who, alone, shall be responsible for all debts contracted, so that no shareholder shall be liable for any amount beyond his or her respective shares.

7. That the purser shall keep a book wherein he shall enter the name and ahall send to the purser the number of the shares sold or transferred trees of the purchaser; and no share, unless so entered, will be recogn

8. The reports of the manager of the works, and the books of the company, shall be open to the inspection of the charcholders at all reasonable times, at the office, on application to the manager and purser.

9. The leaves and legal Hiles of the colliery, and all the property, machinery, effects, and assats, of the company shall be, and are henceforth, vested in the trustees, Messrs. Walton Pell, Jun., of Chipston, and Freier Faul Couchi, of Nant-J-Brain House, in trust for, and on behalf of, all such parties as now are, or hereafter may be, proprietors of shares therein; and, according to their respective interests therein, to distribute and pay the quarterly or half-yearly dividends, profits, and bonases, in accordance with the usual rules and regulations, as entered in the cost-book of the colliery.

10. All parties interested in the colliery.

tions, as entered in the cost-book of the colliery.

10. All parties interested in the colliery, shall receive a transferable certificate, representing the number of shares held by him or her .— the holder of which will be entitled to receive all dividends, profits, and bonuses, from time to time—but will not be allowed to vote at any meeting, or have a vote in the management of the affairs of the company, until such proprietor shall have made application to be registered as a shareholder in the cost-book of the colliery, three months previously it is such meeting.

11. That the London business, and the correspondence of and relating to the colliery, shall be transacted and carried on at the offices of Messrs. Roberts, Carrier, and Company, unineral surveyors, and general investment agents, 21, Portman-street, Portman-square, with whom shall also be deposited a displicate book of the certificate holders of shares in the said colliery, and also copies of the cost-sheet, reports of the state of the colliery, and resolutions of the quarterly general meetings of the shareholders hereinbefore appointed to be hold as aforesaid.

12. A general meeting of the shareholders have been appeared by shareholders holding not less than one-fifth of the whole number of the supplies of the s

London and County Bank; the London Joint-Stock Banking Company.

COUNTRY BANKERS.

Stuckey and Co.; National Provincial Bank of England; Messrs. Ledgard as

Co., Poole; Messrs. Bastard and Co., Blandford.

ENGINEER—George Rennie, Esq.

SECRETABLES (pro tem).—Mossrs. Castleman and Kingdon. Gilbert Stephens, Esq., 13, Northumberland-street, Strand. Messrs. Castleman and Kingdon, Winborne.

Co., Fools: Messrs. Bastard and Co., Blandford.

SECRETABLES (pro tens).—Hessrs. Cacideman and Kingdon.

Gilbert Stephens, Eeq., 13, Northumberland-street, Strand.

Messrs. Cacideman and Kingdon, Windorne.

Since Issuing the former prospectus, the committee being determised to proceed on the survest grounds, and anxions for the ultimate success of the undertaking, have under further and more intuite inquiries into the renumerative tredit to be expected in this desired of the survey of the control of the control of the survey of the control of the control

These are a few of the advantages offered to the public by the projected line; and the committee, impressed with the sense of the excellence and legitimacy of the undertaking, and basing their views upon ascertained facts and undoubted evidence, feel themselves warranted in offering to all applicants for shares the following conditions—viz: That no party taking shares in the said company shall be blable (in case of failure of the company) to a larger amount than 5s. per share, unless a greater sum shall be sanctioned at a general meeting of the shareholders called for that purpose: so that, in case the/company fail at any period of time prior to such meeting being called, the committee pledge themselves to return £1 17s. per share instead of £2 2s., and a proportionately larger amount if the accounts of the company, upon inspection, show a less expenditure.

At the first general meeting of the shareholders the committee will produce an account, signed by the bankers, of the several sums received by them on account of the company—thereby warranting to the shareholders, that the amount subscribed is still in the hands of the bankers, of the several sums received he shareholders at their first general meeting, and everything submitted to their investigation and approval.

To the Provisional Committee of the Bristol and Poole Horbour Railway Company.

I request you will allot me shares of £20 each, in the above undertaking, agree ably to the prospectus; and I agree to accept such shares as may be allotted me on the terms above mentioned, and also to pay the deposit thereon, and to sign the Parliamentary contract and subscribers' agreement, when required.—Dated the day of 1846.

\*\* Applications for shares may be made, in the above form, at the offices of the pany, 65, King William-street, City; Gilbert Stephens, Eq., 13, Northumberland.shirand; Messra. Castleman and Kingdom, solicitors, Wimborne; T. Hyatt, Esq., solicitors, Poole Mallet; S. Smith, Esq., Blandford; and M. E. Welch, Esq., solicitor, Poole

METROPOLITAN IRON AND STELL COMENY.

A company has been formed for the MANIPACTICE OF IRON ASSOCIATION AND STELL COMENY.

A company has been formed for the MANIPACTICE OF IRION ASSOCIATION ASSOCIATI

E. MILLS, Secretary pro tem.

WHEAL CURTIS COPPER MINING COMPANY.
FINANCIAL ANNOUNCEMENT.
The £4500 to be raised by the deposit on the shares issued to the public will be applied, without deduction for rent of offices, salaries, or allowances to director, or other officers connected with the direction of the company, (they having consented to forego all claim to the same, until the working of the mine shall exhibit a profit to the shareholders), to the purposes stated in the following summary, as follows:

A 76-lb. engine with bollers.

Engine-house £360, timber £500.

Begine-house £360, timber £500.

S600
Ropes, chains, whims, &c.

Pumps and pump-work.

5000
Captain's salary and labour for four months.

Captain's salary and labour for four months.

200
Captain's salary and labour for four months.

printed for circulation, on the first day of every months, and gives to every statement of applications hold themselves as a responsible body, and abominate every thing like secrecy in the transactions of public business, believing that such a system, however logal, is pregnant with danger to their own characters.

Application for shares to be made at the offices of George Pilkington, Esq., managing director, Gresham Rooms, Basinghall-street, addressed to

E. MILES, Sec.

OTICE—WHEAL CURTIS COPPER MEDICAL COMPANY.—(PROVISIONALLY REGISTERED.)—The Provisional Directors of this mine have the gratification to inform the public, that they have already allotted the greater portion of the shares intended to be issued. No applications will be received after the 15th inst. Applications for shares to be made at the offices of George Pilkington, Esq., Managing Director, Gresham-rooms, Basinghall-street, addressed to Eq., Cotober 1, 1846.

THE PROJECTED RAILWAYS.

PATENT METALLIC SAND OR ENGLISH POZZOLANO.

—The PROPRIETORS of the METALLIC SAND, after many years "experience of its merits, confidently RECOMMEND it to the attention of Engineers, Architects, Bullders, and the public generally, as an invaluable article for HYDRAULIC and OTHER WORKS requiring great strength and durability.

In analysis, the metallic sand is very similar to the Italian Fozzolano—the value of which, in all subaqueous works, is so well known to engineers and architects: but from its granular form, and the sharpness of its angles, and the increased quantity of iros it contains, the metallic sand has been found more durable, and Engle Chesper than any other similar material at present in use.

metallic sand has been found more durable, and much cheaper than any other simular material at present in use.

From its chemical qualities it forms, in admixture with lime and common sand, a cement, mortar, or concrete, of flinty hardness, and almost entire incompressibility; and from its adhesive and impervious qualities, it completely and for ever excludes water. The more it is exposed to the atmosphere, and to wet and damp, the harder and more durable it becomes. In the formation of mortar and concrete, it has been extensively used in the great tunnels on the London and Birmingham Railway, in the foundations of the New Houses of Parliament, see walls on the North Devon Railway, Clifton Reservoirs, and other works

or Parliament, sea walls on the North Devon Railway, Clifton Reservoirs, and other works of importance.

As an external stucco, the metallic sand cement is unaffected by frost or wet; in appearance it resembles the best Portland stone; requires, therefore, neither colour nor paint, and is entirely free from vegetative cracks and blisters, to which Roman cement is liable.

is liable.

Further information will be given, and specimens shown, on application to Mr. C. K.
Dyer, 4, New Broad-street; and at the Metallic Cement Wharf, King's Road (opposite
Fratt-street), Camden New Town, London.

ANALYSIS OF THE PATENT METALLIC SAND.

N.B.—The paint can be sent by steamers every day, to London, Liverpool, Bristot, or Glasgott, at a triding expense.

GREAT BRITAIN MUTUAL LIFE ASSURANCE SOCIETY, 14, WATERLOO-PLACE, LONDON.

THE CHISHOLM, Chairman | WM. MORLEY, Esq., Deputy-Chairman | WM. MORLEY, Esq., Deputy-Chairman | HALF CREDIT RATES OF PREMIUM.

The attention of Assurances may be effected, and loans for abort periods secured with the least possible present outlay, and at a less premium than for short terms only, and with the option of paying up the arrears and interest—thus becoming entitled to participate in the whole of the profit of the institution.

the whole of the profit of the institution.

Extract from the Half Credit Rates of Premium.

Age 20. Age 30. Age 30. Age 50. Age 50.

Extract 1 1 . Age 30. Age 50. Age 50.

Thus £1000 may be assured at the age of 30 by the annual payment of £10 10s. 10s. for the first five years.

The whole of the profits divided ANNUALLY among the members, after payment of fife

The whole of the promise drines associated and the fund continually accumulating from premiums.

An ample guaranteed capital, in addition to the fund continually accumulating from premiums, fully sufficient to afford complete security to the policy-holders.

Members assured to the extent of £1000 entitled (after payment of five annual premiums) to attend and vote at all general meetings, which will have the superintendesse and control of the funds and affairs of the society.

Full particulars are detailed in the prespectus, which, with every requisite information, may be obtained by application to

A. E. IRVINE, Managing Director.

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